2000

The Uniform Soybean Tests: Northern Region 2000

Gary L. Nowling
USDA, ARS

THE UNIFORM SOYBEAN TESTS NORTHERN REGION

2000

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ACKNOWLEDGEMENTS

The cooperation of Donna I. Thomas and Warren E. Rayford, NCR Unit Laboratory, National Center for Agricultural Utilization Research, Peoria, Illinois, in analyses of Uniform Test samples for protein and oil concentration of the seeds is gratefully acknowledged. The assistance of Wad Crochet and Jerry Powell in packeting and distributing seed for the Uniform Tests, for Phytophthora evaluations, and for summarizing data for the Uniform Test Report is sincerely appreciated.

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INTRODUCTION

The purpose of The Uniform Soybean Tests is to critically evaluate the best of the experimental soybean lines developed by federal and state research personnel in the U.S. and Canada, for their potential release as new varieties.

A test is established for each of ten maturity groups. Uniform Test 00 includes maturity Group 00 strains adapted to production in the northern fringe of the present area of soybean production. Uniform Tests 0 through IV include later maturing strains adapted to locations progressively further south in the North Central States and areas of similar latitude. Each year new selections are added and others that have been sufficiently tested are dropped from the tests. The summary of performance of strains in Uniform Tests 00 through IV in the northern region is included in this report. The USDA-ARS Soybean Production Research Unit, P.O. BOX 196, STONEVILLE, MS 38776, issues the report on Uniform Tests IVS through VIII in the southern states.

Data from the Uniform Soybean Tests are the basis for decisions on the regional release of soybean varieties. Preliminary Tests are grown at a limited number of locations throughout the region to evaluate the experimental strains for one year before they are entered in the Uniform Tests. Uniform Tests are grown at more locations with more replications than Preliminary Tests.

The Uniform Soybean Test Report is a progress report containing statements, which may or may not be verified by subsequent experiments. Statements or data in the report, therefore, should not be published unless permission has been obtained previously by those concerned.

The USDA-Agricultural Research Service does not vouch for the authenticity of either the parentage or ancestry of entries in the Uniform Soybean Tests. This agency is not responsible for the accuracy of data submitted to and included in The Uniform Test Report.

POLICY ON EVALUATION AND RELEASE OF STRAINS

Qualifications for inclusion in the Uniform Tests.

1) Experimental lines entered in the Uniform Tests, including Preliminary Tests, must be free of restrictions on their potential release as varieties or their use as parents in biparental crosses or as parents in recurrent selection programs.

2) It is recommended that breeders obtain written permission for the use of privately developed varieties or strains that are used as parents in the development of lines included in the Uniform Tests.

Use of Uniform Test entries in soybean breeding and research.

1) Seed of Uniform Test entries is for evaluation in the Uniform Tests only and may not be distributed to non-participants in these tests without prior approval by the originator of the entry.

2) Entries in the Uniform Tests may be used by Uniform Test participants as parents only in biparental crosses or in developing recurrent selection populations

3) Uniform Test participants must obtain prior approval before using any entry, other than their own, as a recurrent parent in backcrossing, in any breeding or genetic studies, or for any other research.

4) Experimental strains entered in the Uniform Tests should be labeled "Experimental Strain" and should not be identified by strain designation when grown in demonstration plots or when the Uniform Tests are shown on field days or farm tours.

Release of Uniform Test entries.

1) Entries in the Uniform Tests are released according to USDA-Agricultural Research Service and State Agricultural Experiment Station or Canadian government policies.

2) Restricted or contractual releases cannot impose any restriction on the prior use of an entry as a parent by Uniform Test Participants.

STRAIN DESIGNATIONS

Experimental (i.e., unreleased) strains are identified by a number with a state or province code letter prefix. The code letters have been agreed upon in meetings of experiment station agronomists with the U.S. Department of Agriculture. Additional code letters may be used to designate the individual within a state or province that developed the strain.

A	Iowa A.E.S.
Ar	Arizona A.E.S.
Au	Alabama A. E. S.
B	California
C	Purdue (Indiana) A.R.P.
CM	Canada Dept. of Agriculture, Morden, Manitoba
D	Mississippi A.E.S.
E	Michigan A.E.S.
F	Florida A.E.S.
FC	Forage and Range Research Branch, USDA
Ga	Georgia A.E.S.
H	Ohio A.R.D.C. (HC=R.L. Cooper, HF=R. Fioritto, HS=S.K. St. Martin)
K	Kansas A.E.S.
Ky	Kentucky A.E.S.
L	Illinois A.E.S. (LN=C.D. Nickell, LG=R.L. Nelson)
La	Louisiana A.E.S.
LS	Southern Illinois University
M	Minnesota A.E.S.
Md	Maryland A.E.S.
Me	Maine A.E.S.
N	North Carolina A.E.S.
ND	North Dakota A.E.S.
OAC	University of Guelph, Guelph, Ontario
OK	Oklahoma Agricultural Experiment Station
ORC	Ridgetown, Ontario
OX	Research Station, Harrow, Ontario
PI	Plant Inventory
R	Arkansas A.E.S.
RJ	Arkansas State University, Jonesboro
S	Missouri A.E.S. (SS=D.Sleper)
SC	South Carolina A.E.S.
SD	South Dakota A.E.S.
Ts	Texas A.E.S.
T	Soybean Genetic Type Collection, USDA, Urbana, IL
U	Nebraska A.E.S.
UD	Delaware A.E.S.
UM	University of Manitoba, Winnipeg, Manitoba
UT	Tennessee A.E.S.
V	Virginia A.E.S.
W	Wisconsin A.E.S.
X(Y)	Two or more states cooperatively, e.g. ND(M) North Dakota and Minnesota

METHODS

Uniform tests are planted in multiple-row plots with three or four replications, and the center rows are harvested for yield and seed quality determinations. Preliminary Tests are multiple-row plots with two replications. Usually 15 to 20 feet of row are planted and 12 to 16 feet harvested, to eliminate end-of-row effects. Coefficients of variability are included with all replicated test data. Discretion is used in including data with high CVs in the regional means. If the CV is greater than 15, participants should include the reason, such as disease or environmental conditions. Lines may be heterogeneous for morphological traits the first year in the Uniform Tests but must be pure lines the second year of testing. It is the responsibility of the breeder to purify heterogeneous lines.

Generation Composited is the generation after the final single-plant selection, when seeds from plants or rows are composited.

Previous Testing is the number of previous years in the same Uniform Test or, in the case of new entries, a reference to the previous year's test, abbreviated to PT IIA for Preliminary Test IIA, for example.

Yield is measured after the seeds have been dried to uniform moisture content and is recorded in bushels (60 pounds) per acre. To convert to kilograms/hectare multiply by 67.25.

Maturity is the date when 95% of the pods have ripened, as indicated by their mature pod color. Delayed leaf drop and green stems are not considered in assigning maturity. Maturity is expressed as days earlier (-) of later (+) than the average date of the reference variety. To aid in maturity group classification, one earlier(E) and one later (L) check variety are given in the maturity column for each test, or a maturity check from an earlier or later maturity group is included. Current reference and check varieties and the maturity group limits relative to the reference varieties are:

Group	Reference:	Range	Early check	Late check
00	McCall	-7 to +5	Traill	
0	Lambert	-6 to +2	Traill (E)	Parker (L)
I	Parker	-4 to +4	Lambert (0)	IA2050 (L)
II	IA2021	-3 to +5	IA2050 (I)	IA2052 (L)
III	IA3010	-6 to +2	IA2052 (II)	Macon (L)
IV	HS93-4118	-2 to +9	Macon (III)	Mustang (L)

These maturity group ranges are based on long-term means over many locations. When using data from other environments, the interval between reference varieties may vary, and the division between maturity groups should be estimated in proportion to the above figures. Additional check varieties may be included in specific tests such as IA2036 (SCN) for resistance to the soybean cyst nematode in UT II, or Charleston (dt1) as a determinate check in UT IV.

Lodging is rated at maturity according to the following scores:

1 = Almost all plants erect
2 = All plants leaning slightly or a few plants down.
3 = All plants leaning moderately (45 degrees), or 25% to 50% of the plants down.
4 = All plants leaning considerably, or 50% to 80% of the plants down.
5 = Almost all plants down.

Height is the average length in inches of mature plants from the ground to the tip of the main stem. To convert to centimeters, multiply by 2.54.

Seed Size (i.e. weight per seed) is recorded in grams per 100 seeds based on a 100- or 200-seed sample. To convert to seeds per pound, divide this into 45,359.2.

Seed Composition is measured on samples submitted to the USDA-ARS National Center for Agricultural Utilization Research, Peoria, Illinois. A 25-gram sample of clean seed is prepared by taking an equal volume or weight of seed from each replication. Protein and oil percentages are measured on these samples using near infrared transmittance, and are reported on a moisture-free basis.

Descriptive Code: 1 2 3 4 5 6 7 8 abbreviated as underlined below.

1 = Flower color: Purple, White
2 = Pubescence color: Tawny, Gray, Light tawny
3 = Pod color: Brown, Tan
4 = Seed coat luster: Dull, Shiny, Intermediate
5 = Seed coat color = Yellow, Gray, Light gray, Green
6 = Hilum color: Black, Imperfect black, Brown, Buff, Gray, Yellow; prefixes indicate Light or Dark shades, e.g. Lbf = light buff, Dib = dark imperfect black. H indicates heterogeneous for hilum color.
7 = Stem termination: Determinate, Indeterminate, Semi-Determinate
8 = Ep high seed coat peroxidase, ep low seed coat peroxidase, H heterogeneous

Shattering is scored at a specified time after maturity and is based on estimates of the percent of open pods as follows:

1 = No shattering
2 = 1% to 10% shattered
3 = 10% to 25% shattered
4 = 25% to 50% shattered
5 = Over 50% shattered

Iron chlorosis is rated from 1, no chlorosis, to 5, severe chlorosis.

Emergence score is related to hypocotyl elongation and is measured at Ames, Iowa by germination at 25 C (a critical temperature for differentiating strains). Four replications of 25 seeds/entry are planted in a 5-inch plastic pot at a 4.5 inch depth in sand. Seedlings that have emerged by 12 days after planting are counted and emergence score in relation to percent of seeds that germinate and emerge are as follows:

1 > 95%
2 = 91 to 95%
3 = 85 to 90%
4 = 76 to 84%
5 < 76%

DISEASE

Disease reactions are listed according to "Soybean Disease Survey Standards", March, 1960, unless otherwise specified. Disease reaction is scored from 1 (no disease) to 5 (very severe), or in some cases as percent infected or simply as + (present) or 0 (absent). Purple seed stain and seed mottling follow the disease severity class rating:

Disease severity class rating	1	2	3	4	5
Number of diseased seed in sample	0	1-3%	4-8%	9-19%	20-100%

An additional classification to describe the extent of seed coat mottling as M (mild), E (extensive), or S (severe), is included. Pod and stem blight is rated as percent of infected seed on a four-week delayed ("d") harvest sample. The location where the test was made is identified in the column heading, and the letter "a" or "n" signifies artificial or natural infection. Clear-cut and consistent reactions are given by letter instead of number: R = resistant, S = susceptible, I = intermediate, and H = heterogeneous. Natural infection ratings are from agronomic tests in some instances and from special disease plantings in others. Absence of symptoms under natural infection does not necessarily mean high resistance.

Abbreviation	Disease	Pathogen
BB	Bacterial blight	Pseudomonas syringa pv. glycinea
BBV	Bud blight	Tobacco ringspot virus
BP	Bacterial pustule	Xanthomonas campestris pv. phaseoli
BS	Brown spot	Septoria glycines
BSR	Brown stem rot	Phialophora gregata
BTS	Bacterial tan spot	Corynebacterium flaccumfaciens
CN	Cyst nematode	Heterodera glycines
CR	Charcoal rot	Macrophomina phaseolina
DM	Downy mildew	Peronospora manshurica
FE	Frogeye leafspot	Cercospora sojina
PM	Powdery mildew	Microsphaera diffusa
PR	Phytophthora rot	Phytophthora sojae
PS	Purple stain	Cercospora kikuchii
P&SB	Pod & stem blight	Phomopsis spp.
Pyd	Pythium root rot	Pythium debaryanum
Pyu	Pythium root rot	Pythium ultimum
RK	Root knot nematode	Meloidogyne spp.
RP	Rhizoctonia root rot	Rhizoctonia solani
SB	Sclerotial blight	Sclerotium rolfsii
SC	Stem canker	Diaporthe phaseolorum var. caulivora
SCL	Sclerotinia stem rot	Sclerotinia sclerotiorum
SDS	Sudden death syndrome	Fusarium solani
SMV	Soybean mosaic virus	Soja virus 1
TS	Target spot	Corynespora cassiicola
WF	Wildfire	Pseudomonas syringae var. tabaci
YMV	Yellow mosaic virus	Phaseolus virus 2

Rating for BB, BP, DM, FE, and PM are based on leaf symptoms; those for BSR on percent of plants with stem browning, or percent of stem length browned.

The percent purple stain and Phomopsis seed infection is based on a 100-seed sample plated on potato-dextrose agar in petri dishes.

The percent green seed is based on a 100-seed sample and is the number of seed with a green or partially green seed coat.

Abbreviations used in sudden death syndrome (SDS) ratings are as follows:

R6Date = Days from planting to R6.2 growth stage
R6DI = SDS Disease Incidence (% of plants with visible leaf symptoms)
R6DS = SDS Disease Severity (1=mild chlorosis, 5=severe leaf scorch, 9=premature death of the plant)
R6DX = SDS Disease index (R6DI x R6DS/9)

PROCEDURE FOR TESTING AND RELEASE OF STRAINS

Public soybean breeders have agreed upon this policy on testing and release of soybean strains evaluated in the Uniform Soybean Tests Northern Region. The policy was developed to assist breeders in preparing schedules for seed increases and to assist individuals and committees responsible for approving releases. The policy will aid private breeders in the U.S. and foreign countries to understand how releases will be made that may affect their programs.

Development and release of soybean strains is carried out by many public institutions. The programs at these institutions operate independently until strains are available for advanced testing in the Uniform Soybean Tests. The USDA-Agricultural Research Service coordinates the Uniform Soybean Tests. The tests are divided into those in the Northern Region, for strains in maturity groups 00 to IV, and those in the Southern States, for strains in maturity groups IVS to VIII. Group IV maturity strains are divided into an IVN test for the northern region and an IVS test for the southern region. Public soybean breeders are encouraged to enter superior strains they develop into the Uniform Soybean Tests.

Strains are evaluated for one year in the Preliminary Tests (PT), which are conducted at eight or more locations in several states. When the tests are completed, each public breeder is given the opportunity to review the results and to decide which strains merit further testing. In instances where there is little consensus among the breeders on the merits of a strain, the originator of the strain generally makes the final decision.

Strains that merit further testing are evaluated in the Uniform Tests (UT) conducted at more locations than Preliminary Tests and with three or four replications. Lines developed by four or more backcrosses to a released cultivar may be entered directly into the UT without prior evaluation in PT. Strains evaluated in Regional Cyst Nematode (SCN) tests may also be entered directly into the UT.

Strains may be considered for release after they have been evaluated for two years in the UT. Exceptions to this are special purpose strains or strains derived from four or more backcrosses to a released cultivar; these may be considered for release after one year in the UT. Any institution or breeder participating in the Uniform Soybean Tests may request consideration for release of any strains in the UT, however the institution that developed the strain usually initiates it.

A strain should be released only if it is distinctly superior to existing varieties in one or more characteristics important for the crop, or it is superior in overall performance in areas where adapted. A single major production hazard, which a new cultivar can overcome, e.g., a highly destructive disease, may be the overriding consideration in releasing a variety. Strains with a very limited range in adaptation should not be released unless performance in that limited range is outstandingly superior, or the strain possesses important use values not otherwise available, including diversification of the germplasm base for the species.

When a decision has been made to multiply a strain for release, the originating institution will inform other UT participants of the decision by February 15. This will give each UT participant the opportunity to participate in the multiplication and release of the strains.

By March 15 all institutions intending to participate in the multiplication of the strain must notify the originating institution of their intent. A final decision to participate in the release of the strain may be delayed until an additional year's data are available for review. By April 1 the originating institution should notify all UT participants what states will be participating in the multiplication and are considering participating in the release of the strain. Breeders seed is distributed to foundation seed organizations in participating states for production during the summer. At this time, if a final decision to release has been made, a sample of seed may be distributed to non-participants in the UT, including private soybean breeders, in accordance with a State's Experiment Station policy. This distribution is made only by the originating institution.

The originating institutions prepare a release notice to soybean seed producers listing all institutions participating in the release of the cultvar. This notice is circulated for signature by all participating institutions. Assistance in the preparation and circulation of this release notice may be obtained by Dr. Judith St. John, Associate Deputy Administrator for Plant Science, USDA, ARS, Bldg. 005, BARC-West, Beltsville, MD 20705, phone 301-504-6252. The office for clearance of proposed names of new soybean cultivars is : Mr. James P. Triplett, Chief, Seed Regulatory & Testing Branch, Livestock and Seed Division, AMS/USDA, Bldg. 506, BARC-East, Beltsville, MD 20705-2350, phone 301-504-9430. The date for simultaneous publicity release on new soybean cultivars by participating states is determined by the originating state, and is usually in August but may be delayed until the following April if additional UT data are being reviewed and a final decision to release has not been made.

If an additional year of UT data is being reviewed prior to a final decision on release, states producing foundation seed must notify the originating state by February 15 of their intent to participate in the release of the cultivar. The release notice to soybean seed producers should be distributed for signature by the participating institutions by April 1.

Foundation seed under the name of the new cultivar is distributed to qualified certified seed producers in states releasing the new cultivar by April 1. At this time a sample of seed may be distributed to non-participants in the UT, including private plant breeders, for testing and crossing if this distribution has not been made previously.

UNIFORM TEST STRAINS RELEASED IN 2000

Variety	Experimental designation	Uniform Test evaluations
IA2050	A96-494018	UT I, UT II, PT I, PT IIA, PT IIB 2000 UT I 1998-1999, PT I 1997
IA2051	A96-591033	UT II 1998-1999, PT IIA 1997
IA2052	A96-591046	UT II, UT III, PT IIA, PT IIB, PT IIIA, PT IIIB 2000, UT II 1998-1999, PTIIIB 1997
Barnes	ND95-931	UT 0 1999-2000, PT 0 1998

Variety	Release date	Releasing states	Foundation seed production
IA2050	January 2000	IA	2000
IA2051	January 2000	IA	2000
IA2052	January 2000	IA	2000
Barnes	January 2000	ND	1999

Strain	Parentage
A1	Anoka x Mack
A2	M63-17 x C1453
A6	40 Lines intermated three times
A55-5629-4	Roanoke x Hawkeye
A72-507	Amsoy x Wayne
A72-512	Amsoy x Wayne
A75-204018	IVR Ex4731 x Wirth
A75-305022	Wye x IVR 4731
A75-332035	L15 x AP68-1016
A76-304020	(Beeson x AP68-1016) x (L15 x Calland)
A79-134008	AP6 (1YT)(F4) C2
A79-136012	Pride B216 x Land O' Lakes 4102
A80-147002	Northrup King S1492 x Pella
A80-344003	A75-332035 x Century
A81-151026	A75-204018 x Century
A81-356022	Century x A76-304020
A85-291001	Elgin x Asgrow A1937
A86-152032	AP9
A86-204022	Hack x Zane
A86-301024	A81-356022 x Hack
A87-196014	BSR 101 x A80-344003
A90-211003	Chamberlain x Conrad
A91-501002	AgriPro AP2190 x A86-301024
A91-701035	A86-301024 x Dekalb 226
A92-525014	IA2008 x Kenwood
A92-627030	Kenwood x Asgrow A3205
A92-725035	LN86-1947 x Dairyland DSR-304
A92-726004	Jack x Dairyland DSR-284
A93-552034	IA2008 x Kenwood
A94-572029	Asgrow A2234 x HC85-604
A94-674017	Pioneer P9301 x Kenwood
A94-774021	Jacques J285 x Northrup King S29-39
A95-590008	Northrup King S25-15 x (Pioneer P9341 x PI 423.948A)
A95-590013	Northrup King S25-15 x (Pioneer P9341 x PI 427.417)
AC90-115043	(Northrup King S23-03 x A86-152032) x Sturdy
AgriPro 35	L15 x Cutler
AgriPro AP1995	Unknown
AgriPro AP2190	CFS 2000 x K464
AgriPro AP3355	
Agserv 8780	Unknown
AM90-112003	Agripro AP2190 x Asgrow A3427
AMB 60	
AP6	Crop Science 15:739
AP68-1016	Clark (5) x PI 84.946-2
AP9	Crop Science 20:677
Asgrow A0949	Evans x Vickery
Asgrow A1564	Hark x C1453
Asgrow A1662	Asgrow A3127 x (Century 84 (2) x A79-134008)
Asgrow A1937	Hodgson 78 x Wayne
Asgrow A2234	[(Calland x Amsoy) x Century (3)] x Williams 82
Asgrow A2575	C1453 x Amsoy 71
Asgrow A2615	
Asgrow A2932	Unknown
Asgrow A2943	Asgrow A1564 x Asgrow A3127

IDENTIFICATION OF PARENT STRAINS 2000

Strain	Parentage
Asgrow A3127	Williams x Essex
Asgrow A3205	Northrup King S1474 x Asgrow A3127
Asgrow A3237	Asgrow A3501 x Asgrow A3733
Asgrow A3242	Fayette x Asgrow A2943
Asgrow A3427	X3836 x Asgrow A3127
Asgrow A3501	Asgrow A3127 (4) x Williams 82
Asgrow A3733	Elf x Asgrow A3127
Asgrow A3860	Williams x Essex
Asgrow A4009	Asgrow A3860 x Fayette
Asgrow A4138	Asgrow A4009 x Asgrow A4595
Asgrow A4595	Douglas x Asgrow A3127
Asgrow A4715	Asgrow A5475 x (Douglas x Asgrow A3127)
Asgrow A5475	(Tracy x d5064) x Bedford
AX56P64-1	Adams x Harosoy
BD22115-13	(Amsoy x Portage) x Holmberg 840-7-3 (From Sven A. Holmberg, Sweden)
BK 22-1-3	Unknown
C1079	Lincoln x Ogden
C1253	Blackhawk x Harosoy
C1266R	Harosoy x C1079
C1426	C1253 x Kent
C1453	C1266R x C1253
C1653	A75-305022 x Century
C1678	Hobbit x Lakota
C1725	M2 Selection from Century
C1742	A80-244003 x Century 84
C1834	C1678 x Resnik
C1842	[Spencer (2) x Pella 86] x Resnik
C9304	
CAB 47	
CAB187	
CAB204	
CFS 2000	C1426 x Amsoy Phyt. 4
CM304	Unknown
CM497	Unknown
CX1038	Cutler 71(4) x Pando
CX1159-49-1	Spencer x PI 423.948A
CX1307	Cutler 71(5) x Pando
CX1334	C1725 x A6
CX1345	CX1038-63 x Kenwood
CX1393	C1742 x CX1159
D49-2491	S-100 x CNS
d5064	Unknown
D51-4877	Roanoke x N45-745
D53-184	D49-2525 (Lee sib) x L46-5679
D53-354	
D55-4168	Ogden x Biloxi
D58-3358	Jackson (4) x D49-2491
D59-9289	D51-4877 x D55-4168
D65-6765	D58-3358 x D59-9289
D68-18	Dyer x Bragg
D75-10169	
Dairyland DSR-173	
Dairyland DSR-217	(Corsoy x Hark) x Asgrow A3127
Dairyland DSR-304	Williams x Unknown

Strain	Parentage
Dairyland DSR-365	
Dekalb 226	Unknown
DeKalb Pfizer CX415	Unknown
E84108	Sprite x Hardin
E85073	
E91031	E84108 x Conrad
FH22-815	Fiskeby V x Harosoy 63
HC74-3400	Williams x Ransom
HC74-634RE	Williams x Ransom
HC74-634REBC	HC74-634RE (6) x Williams 82
HC78-279	L72U-2567 x Essex
HC78-350	L72U-2567 x Essex
HC78-352BC	(L72U-2567 x Essex) (6) x Williams 82
HC78-676	L70T-543G x L74D-619
HC78-676BC	HC78-676 (6) x Williams 82
HC79-478	L70T-543G x L74D-619
HC80-1944	L73U-632 x Elf
HC80-585	HC74-3400 x Sprite
HC83-19-2	Elf x D75-10169
HC83-193	Elf x D75-10169
HC84-4850	Sprite x Williams 82
HC84-553-1	Hobbit x K74-104-76-205
HC85-164	HC78-676 x Sprite
HC85-603	Sprite x Asgrow A3127
HC85-604	Sprite x Asgrow A3127
HC85-606	Sprite x Asgrow A3127
HC85-607	Sprite x Asgrow A3127
HC85-618	Sprite x Asgrow A3127
HC85-6423	Williams 82 x Gnome
HC85-6577	HC78-350 x HC78-676
HC85-6723	HC74-634RE x HC78-676
HC86-3403	HC78-279 x Asgrow A3127
HC86-544	HC74-634RE x HC78-676
HC87-5844	Pixie x HC78-676
HC88-51MB	(Pixie x PI 229.358) x (Elf x D75-10169)
HC88-813	Hobbit 87 x HC80-585
HC89-2237	HC80-1944 x Asgrow A3127
HS10C2	Crop Sci. 37:1370-1373
HS84-6224	HW79015 (5) x HW79149
HS84-6276	Harper (3) x Williams 82
HS88-4909	Conrad x Hayes
HS90-3487	HS84-6276 x Conrad
HS90-37100	HS84-6224 x Conrad
HS91-4825	Burlison x A86-301024
HS92-9353	HS10 C1 (Crop Science 37: 1370-1373)
HW79015	A72-512 x Oakland
HW79149	[A72-507 (6) x A1] x [A72-507 (5) x PI 82.263-2]
IVR 1120	Provar x (AX56P64-1 x PI 191.110-1)
IVR Ex4731	Amsoy x Wayne
J22	L37-1355 (PI 81.041 rouge) x Arksoy 2913
J74-45	Forrest (2) x (D68-18 x PI 88.788)
Jacques J231	(Hodgson x Calland) x Corsoy
Jacques J285	Weber x Asgrow A3127
K1262	Spencer x DeKalb Pfizer CX415

Strain	Parentage
K464	Beeson x Hark
K74-104-76-205	Tracy x Williams
K88-22-42	Hamilton x N84-507
L15	Wayne (6) x Clark 63
L1-5	Century (5) x PI 408.251
L1L3-4-4	Crop Science 27:370-371
L46-5679	Lincoln x Richland
L57-0034	Clark x Adams
L66L-140	Wayne x L57-0034
L70T-543	L15 x Amsoy 71
L70T-543G	From L70T-543
L72U-2567	Williams x Ransom
L73-4673	Corsoy x L57-0034
L73U-632	Miller 67 x L66L-140
L74D-619	Williams x Ransom
L76-0279	Williams x PI 229.358
L77-906	Williams x PI 209.332
L77-994	Williams (2) x PI 88.788
L78-189	Corsoy x Kingwa
L85P-558	L73-4673 x Fayette
L86K-96	Williams 82 x L76-0279
Land O'Lakes 4102	[Wayne x (Clark x Adams)] x Cutler
LG84-1096	PI 297.515 x PI 290.126B
LG89-6661	Sherman x LG84-1096
LN86-1947	PI 437.833 x Elgin
LN86-4668	Fayette x Hardin
LN88-9709	Sherman x Asgrow A2932
LN89-295	Sherman x Resnik
LN89-334	Sherman x Resnik
LN90-4104	Burlison x Asgrow A3733
LN90-4366	LN86-4668 x Resnik
LS88-1517	Pyramid x Douglas
LS92-1800	Fayette x Pyramid
M10	Lincoln (2) x Richland
M319W	Lincoln x Hawkeye
M402	Renville x Capital
M406	Harosoy x Norchief
M42-37	Lincoln (2) x Richland
M53-117	M10 x PI 180.501
M54-139	Renville x Capital
M54-240	Korean x M42-37
M59-120	M54-240 x M54-139
M60-406	Blackhawk x Harosoy
M61-224	Merit x Harosoy
M62-263	Grant x M319W
M63-17	M402 x M406
M63-217Y	Corsoy x M53-117
M64-3	Traverse x PI 196.163
M65-442	Anoka x Amsoy
M67-141	Corsoy x Wayne
M68-201	Evans x Steele
M68-303	M60-406 x Beeson
M68-49-26	Evans x M59-120
M69-20	Merit x Clay

Strain	Parentage
M70-127	Evans x M63-217Y
M70-187	Merit x SS65-5702
M70-294	Ja 53-7-6(PI 358.323 x M63-217Y)
M70-597	Steele x AP68-1016
M70-9	M64-3 x Amsoy 71
M71-148	Clay x Evans
M71-38	Wilkin x M62-263
M72-3	Evans x Hodgson
M73-62	M61-224 x PI 297.518
M74-498	Peterson PX20 x M554-10
M75-2	Hodgson X [M67-141 x (Chippewa x Higan)]
M75-274	Evans x L70T-543
M75-89	Corsoy x M68-303
M76-151	M70-127 x Hodgson 78
M76-55	M69-20 x McCall
M81-18	Evans x M65-442
M81-27	M68-49-26 x M70-294
M81-99	M70-9 x M68-201
M82-556	Hodgson 78 x Vickery
M82-776	M68-49-26 x M70-597
M82-996	M72-3 x Peterson 1677
M83-15	A2 x Hodgson 78
M83-18	A2 x Hodgson 78
M83-449	M74-38 x M74-160
M83-499	M71-38 x L78-189
M84-1023	M71-148 x M76-151
M84-492	A79-136012 x M75-2
M84-93	M71-148 x Ozzie
M85-582	McCall x Corsoy 79
M85-619	Fayette x McCall
M85-993	Fayette x McCall
M86-1973	L77-906 x M75-89
M87-1329	M73-62 x Dassel
M87-135	Sibley x Hack
M87-170	Sibely x Hack
M87-330	M76-55 x Ozzie
M88-207	M81-99 x Hardin
M88-390	Ozzie x M74-498
M88-504	M83-499 x M83-18
M88-84	M83-15 x M82-776
M89-1006	M81-27 x Corsoy 79
M89-1665	Cartter x M85-933
M89-1678	M70-187 x M85-619
M89-1815	M81-27 x Dawson
M89-1818	M81-27 x Dawson
M89-782	Jacques J231 x Kato
M89-895	M84-492 x Sturdy
M89-932	M84-492 x M74-498
M90-1278	BSR 101 x Kato
M90-1459	Sturdy x Elgin 87
M91-1137	Kasota x Kenwood
M92-1631	Faribault x Bell
M92-1631	Faribault x Bell
M92-674	Agassiz x Ozzie

IDENTIFICATION OF PARENT STRAINS 2000

Strain	Parentage
M92-674	Agassiz x Ozzie
M92-761	Maple Belle x M85-582
M92-761	Maple Belle x M85-582
M554-10	Hodgson (4) x Merit
MO30421	
MSBP3	Male-sterile (ms2) intermated population
MSBP4	G. Graef
MSBP5	Graef, Male-sterile intermitted population
MSBPF6	G. Graef
N45-745	Ogden x CNS
N70-1549	Dare x D65-6765
N70-2173	Hampton x Ransom
N77-114	Essex x N70-2173
N77-907	N70-1549 x Centennial
N84-507	N77-114 x N77-907
N90-516	
ND88-599	Ozzie x Dawson
ND88-686	Evans x Bicentennial
ND88-800	Maple Amber x Evans
ND89-980	McCall x Maple Ridge
Northrup King S1346 (6)	A55-5629-4 x PI 257.435
Northrup King S1474	Hark x Wayne
Northrup King S1492	Corsoy x Wayne
Northrup King S19-90	Pride B152 x Pella
Northrup King S20-20	Pride B152 x CM497
Northrup King S20-91	
Northrup King S23-03	Pride B216 x Hodgson
Northrup King S23-12	Northrup King S1346 x Asgrow A2575
Northrup King S24-92	Asgrow A3127 x [(IVR1120 x Calland) x (Mitchell x Cutler 71)]
Northrup King S25-15	
Northrup King S29-39	Pride B152 x 9240R
Northrup King S30-06	
Northrup King S39-11	Fayette x Northrup King S42-30
Northrup King S42-30	Essex x AgriPro 35
OAC 88-09	
OAC 92-08	(Maple Arrow x Williams) x OT84-12
ORC 9002	A81-151026 x Elgin
ORC 9108	Hack x Asgrow A3127
ORC 9002	A81-151026 x Elgin
OT84-12	BD221115-13 x Premier
OT87-7	(Maple Presto x Williams) x Weber
OT88-11	Maple Ridge x Lakota
OT90-7	(Thompson 7803 x BD22115-13) x McCall
OT90-9	Thompson 7803 x (BD22115-13) x McCall
OT91-3	[(Maple Presto x Evans) x OX611] x Maple Amber
OT92-2	(McCall x PI 317.334A) x Baron
OT92-8	Baron x Maple Donovan
OX611	Unknown
P6122	Harosoy x Capital
Peterson 1677	Corsoy (2) x Rampage
Peterson PX20	Blend of 50% Wells: 50% P6122
Pioneer 1677	Rampage x Corsoy (2)
Pioneer 2981	Hark x (Corsoy x Calland)
Pioneer 5096-03D	Asgrow A3127 x PI 273.483

Strain	Parentage
Pioneer 9061	Wells x Pioneer 1677
Pioneer 9181	Beeson 80 x 2981
Pioneer 9268-003	PI 92.718-2 x Pioneer 9271
Pioneer 9271	(Corsoy x Magna) x Williams
Pioneer 9273	Pioneer Brand 2981 x Asgrow A3127
Pioneer P0877	(Clark x Chippewa 64) x Corsoy
Pioneer P1677	Rampage x Corsoy (2)
Pioneer P6303	Pioneer Brand 29981 x M0385
Pioneer P9007	
Pioneer P9061	Wells x Pioneer P1677
Pioneer P9172	
Pioneer P9204	
Pioneer P9231	
Pioneer P9242	
Pioneer P9271	(Corsoy x Magna) x Williams
Pioneer P9281	
Pioneer P9301	
Pioneer P9321	MO30421 x (Weber x Asgrow A3127)
Pioneer P9341	CM304 x Asgrow A3127
Pioneer P9381	
Pioneer P9392	Asgrow A3127 x Gnome
Pioneer P9393	Asgrow A3733 x Resnik
Pioneer P9399	
Pioneer P9402	(L77-994 x Asgrow A3127) x L77-994
Pioneer P9451	Pioneer P9571 x Pioneer P9402
Pioneer P9521	Pioneer P9531 x Pioneer P9561
Pioneer P9531	Centennial x (Pickett 74 x J74-45)
Pioneer P9561	Mack x Forrest
Pioneer P9571	(Dyer x Forrest) x J74-445
Pride B152	Northrup King S1346 (6) x Mack
Pride B216	Corsoy x Wayne
PS 42	Ablett
RCAT 9201	
RCAT 9208	(Maple Presto x PI 317.334A) x Asgrow A3127
S 02-30	Sigco KG 60 x Bicentennial
S-100	Rouge in Illini
S76-2229	Forrest x V71-480
S88-19561	Forrest (3) x PI 437.654
SD(M)91-1574	L1-5 x Glenwood
Sigco KG20	McCall x 2S11
Sigco KG60	Pride B216 x BK 22-1-3
SL89-314	HC79-478 x Asgrow A3127 BC
SL89-3343	Simpson x (Amsoy 71 x HeiHo 3)
SL91-1012	L1L3-4-4 x Glenwood
SL91-1252N	PI 423.708B x Pioneer P0877
SL91-1574M	LI-5 x Glenwood
SL91-1628M	Hack x Kato
SL91-1657N	Pioneer P9061 x PI 1238.924
SL91-1736M	Parker x Glenwood
SL91-1767M	M83-1023 x Sturdy
SL91-2856N	Ozzie x Asgrow A0949
SL93-3343	
SS65-5702	Clark x [Scott (2) x Peking]
Thompson T7803	Wells x Williams

IDENTIFICATION OF PARENT STRAINS 2000

Strain	Parentage
TN84-87	V75-345 x S76-2229
TN86	Bedford x Crawford
TN90-3	TN86 x TN84-87
U91-2519	A86-204222 x HC84-553-1
U91-2527	Sturdy x A86-204022
U94-2229	Uphoff 3100 x Corsica
U94-2306	Holt x Dairyland DSR 304
U94-3412	Parker x Holt
U94-3518	Agserv 8780 x Uphoff 3100
UP1C2-72	S1 line intermating population
UP1Fe-30	G. Graef
UP1Fe-95-9	G. Graef
UP3YC1	Intermated population
Uphoff 3100	Unknown
V63-76	Hill x D53-354
V66-318	D53-184 x J22
V71-480	V63-76 x V66-318
V75-345	Essex x Shore
X3836	Unknown
80-T108	
9240R	Unknown
92546-01td	Tall dt x OAC 88-09 E. Cober's Ph D Thesis

2000 DISEASE, SHATTERING, AND DESCRIPTIVE DATA

	Location	Tests Conducted By:	Tests	UT	PT
IA	Ames	W. Fehr	Emergence Score	I-III	
	Humboldt	W. Fehr	Iron Chlorosis	I-III	I-III
IL	Bloomington	R. Whelan	SDS	I-III	
	Carmi	R. Whelan	SDS	III-IV	
	Pontiac	R. Whelan	SDS	I-III	
	Valmeyer	R. Whelan	SDS	III-IV	
IN	Lafayette	T. Abney	PS	I-IV	I-IV
	Lafayette	T. Abney	P&SB	I-IV	I-IV
	Lafayette	J. Wilcox	PR7	00-IV	I-IV
	Lafayette	J. Wilcox	Descriptive Code	00-IV	I-IV
MN	Moorhead	J.H. Orf	Fe Chlorosis	00	
	Rosemount	J.H. Orf	Fe Chlorosis	0	0
	Waseca	J.H. Orf	Fe Chlorosis	I-II	I
	Yellow Medicine Co.	J.H. Orf	Fe Chlorosis	III-IV	
KS	Manhattan	W. Schapaugh, Jr.	Shattering Score	00-IV	0-IV
	Powhattan	W. Schapaugh, Jr.	Shattering Score	III	
	Ottawa	W. Schapaugh, Jr.	Shattering Score	IV	
WI	Arlington	J. Lauer / M. Martinka	Greenstem	0-II	

2000 UNIFORM AND PRELIMINARY TEST LOCATIONS

Location		Tests Conducted By:	Uniform Tests						Preliminary Tests				
			00	0	I	II	III	IV	0	I	II	III	IV
AR	Fayetteville	C. Sneller	X	X	X								
DE	Georgetown	B. Uniatowski					X	X					
	Middletown	B. Uniatowski					X	X					
IA	Ames	W. Fehr			X	X	X			X	X	X	
	Crawfordsville	W. Fehr					X					X	
	Kanawha	W. Fehr			X								
	Rippey	W. Fehr				X					X		
	Sioux Rapids	W. Fehr			X					X			
IL	Belleville	J. Klein / M. Schmidt						X					X
	Dekalb	T. Cary / B. Diers				X							
	Dewight	T. Cary / B. Diers				X							
	Newton	T. Cary / B. Diers					X	X					
	Ullin	J. Klein / M. Schmidt						X					
	Urbana	T. Cary / B. Diers				X	X	X			X	X	X
IN	Lafayette	J. Wilcox			X	X	X	X			X	X	X
KS	Manhattan	W. Schapaugh Jr.					X	X				X	X
	Ottawa	W. Schapaugh Jr.						X					
	Powhattan	W. Schapaugh Jr.					X						
KY	Lexington	T. Pfeiffer						X					X
MAN	Morden	A. Sloan	X										
MD	Queenstown	W. Kenworhty / P. Cregan					X	X					X
MI	Ingham Co.	J. Boyse			X	X				X	X		
	Lenawee Co.	J. Boyse				X							
	Saginaw Co.	J. Boyse			X								
MN	Lamberton	J. Orf			X	X				X			
	Moorhead	J. Orf	X										
	Morris	J. Orf		X					X				
	Rosemount	J. Orf		X					X				
	Shelly	J. Orf	X										
	Waseca	J. Orf			X	X				X			

2000 UNIFORM AND PRELIMINARY TEST LOCATIONS

	Location	Tests Conducted By:	Uniform Tests						Preliminary Tests				
			00	0	I	II	III	IV	0	I	II	III	IV
MO	McCreedie	D. Sleper					X					X	
	Midway	D. Sleper						X					X
NE	Beemer	G. Graef / L.Korte			X	X							
	Bryon	G. Graef / L.Korte											
	Cotesfield	G. Graef / L.Korte			X	X							
	Goehner	G. Graef / L.Korte				X	X				X	X	
	Plymouth	G. Graef / L.Korte					X						
	Tekamah	G. Graef / L.Korte					X					X	
ND	Casselton	T. Helms	X	X					X				
OH	Hoytville	R. Fioritto				X	X				X	X	
	Mt. Orab	S. St. Martin						X					X
	Plain City	S. St. Martin					X						
	So. Charleston	R. Cooper					X	X				X	X
	Wooster	R. Fioritto				X	X						
ONT	Beachburg	E. Cober	X										
	Chatham	G. Ablett			X	X							
	Elora	I. Rajcan	X										
	Harrow	V. Poysa				X					X		
	Ottawa	E. Cober		X					X				
	Talbotville	I. Rajcan			X					X			
	Woodstock	I. Rajcan		X					X				
QUE	Saint Bruno	G. Tremblay	X	X					X				
SD	Beresford	R. Scott				X					X		
	Brookings	R. Scott		X	X	X			X	X	X		
	Watertown	R. Scott		X	X				X	X			
WI	Arlington	J. Lauer / M. Martinka		X	X	X							
X	Location With Agronomic Data		8	10	16	20	18	14	8	8	10	10	9
X	Location With Seed Composition Data		4	5	5	5	5	5	4	4	4	5	5

Uniform Test 00, 2000

	Strain	Parentage	Previous Testing	Generation Composited	Unique Traits
1.	McCall (00)	(Acme x Chippewa) x Hark	25	F5	
2.	Jim	Sigco KG20 x M81-18		F5	
3.	Glacier	McCall x Altona	4	F4	Rps6
4.	Traill (0)	M82-996 x Sigco KG20	5	F5	
5.	M93-310162	M87-330 x Glacier	-	F5	Rps6
6.	M94-135019	Harmony x OT92-8	-	F5	Rps1
7.	M94-135066	Harmony x OT92-8	-	F5	Rps1
8.	M94-161045	IA1006 x Agassiz	-	F5	Rps1, BSR
9.	M94-161151	IA1006 x Agassiz	-	F5	Rps1, BSR
10.	M94-208020	Glacier x IA2014	-	F5	Rps6
11.	M95-116011	Glacier x S19-90	-	F5	Rps1
12.	ND97-935	Agassiz x Glacier	-	F5	Rps6
13.	ND97-1064	Glacier x Council	-	F5	Rps6
14.	ND97-1211	Glacier x Lambert	-	F5	Rps6
15.	ND97-1385	OT87-7 x OT90-7	-	F5	
16.	ND97-1701	PI 261.475 x Pioneer 9007	-	F5	Early
17.	ND97-1702	PI 261.475 x Pioneer 9007	-	F5	Early
18.	ND97-1707	PI 261.475 x Pioneer 9007	-	F5	
19.	ND97-1763	OT87-7 x OT90-7	-	F5	
20.	OAC 98-01	OAC Frontier x ND88-686	-	F5	
21.	OAC 98-32	92S46-01td x C9304	-	F5	
22.	OAC 99-02	OAC Brussels x (E85073 x Maple Glen)	-	F5	
23.	OT98-14	Maple Glen x (Maple Glen x AC Proteus)	1	F5	High Pro.
24.	OT99-8	(Maple Belle x AC Bravor) x AC Harmony	-		
25.	OT99-13	[(Maple Arrow x PI 361.088B) x Maple Glen x PS42	-		

UNIFORM TEST 00, 2000

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Moorhead	Shatter Score Manhat-tan	PR Laf. Race 7
McCall (00)	PGTDYYIEp	4.7	2.0	R
Jim	PGBDYYIEp	4.2	2.0	H
Glacier	PTBDYYIEp	4.3	2.0	R
Traill (0)	PTBDYYIEp	3.5	1.0	R
M93-310162	PTBDYYIEp	4.2	3.0	S
M94-135019	PTBDYBrIH	4.5	1.0	S
M94-135066	PTBDYBrIEp	4.0	2.0	R
M94-161045	WGBDYBfIEp	4.3	3.0	R
M94-161151	PGBDYIbIEp	4.0	4.0	R
M94-208020	PTBDYYIEp	4.3	2.0	R
M95-116011	PTBDYYIH	4.8	3.0	R
ND97-935	PGTDYBfIEp	4.2	3.0	S
ND97-1064	PTBDYYIH	4.0	2.0	R
ND97-1211	PG+TTSYYIH	4.3	2.0	H
ND97-1385	PG+TT+BDYBrIEp	4.7	3.0	S
ND97-1701	PGTDYYIEp	4.3	3.0	R
ND97-1702	PGTDYYIEp	4.2	3.0	H
ND97-1707	PGTDYYIEp	3.8	2.0	S
ND97-1763	PGTDYYIEp	4.3	3.0	S
OAC 98-01	PGTDYBIlep	4.7	4.0	S
OAC 98-32	PTBDYYIEp	4.7	2.0	R
OAC 99-02	PTBDYBIlep	4.7	4.0	S
OT98-14	PTBDYYIEp	4.5	3.0	S
OT99-8	WTBSYBrIEp	4.5	3.0	H
OT99-13	PTBDYYIEp	4.0	3.0	R

UNIFORM TEST 00, 2000

REGIONAL SUMMARY

No. of Tests Strain	Yield 7 bu/a	Rank 7 No.	Maturity 7 Date	Lodging 7 Score	Plant Height 7 In	Seed Size 7 g/100	Composition Protein 4 %	 Oil 4 %
McCall (00)	34.9	22	9/17	1.2	23	16.1	38.7	20.9
Jim	37.6	20	2.5	1.2	22	16.5	38.3	20.9
Glacier	38.6	15	2.2	1.4	24	17.2	39.5	20.1
Traill (0)	40.5	8	6.5	1.3	26	17.4	40.5	19.7
M93-310162	39.5	13	1.2	1.1	24	14.9	40.2	20.7
M94-135019	39.8	12	3.2	1.3	25	16.7	38.2	22.1
M94-135066	42.6	2	1.1	1.3	26	17.2	38.9	21.4
M94-161045	43.9	1	8.0	1.5	27	15.6	38.5	20.5
M94-161151	40.4	9	4.6	1.2	26	15.9	39.4	20.7
M94-208020	37.9	18	2.5	1.5	24	16.9	38.5	20.6
M95-116011	39.3	14	2.3	1.1	23	18.7	39.7	20.6
ND97-935	41.4	7	7.1	1.6	27	15.9	38.6	20.1
ND97-1064	41.6	6	5.0	1.3	25	16.5	40.7	20.0
ND97-1211	41.8	5	5.6	1.2	24	16.9	40.1	20.4
ND97-1385	40.3	10	1.9	1.2	24	15.1	37.4	22.4
ND97-1701	32.5	24	-1.3	1.1	21	14.6	39.0	20.6
ND97-1702	36.6	21	1.8	1.4	26	17.2	38.6	20.8
ND97-1707	34.0	23	-2.2	1.1	23	15.8	38.8	21.1
ND97-1763	40.3	10	6.1	1.2	26	16.5	37.0	21.3
OAC 98-01	42.2	3	4.7	1.8	25	15.3	38.4	22.0
OAC 98-32	38.6	15	6.5	1.2	25	18.7	39.6	20.8
OAC 99-02	38.3	17	7.0	1.3	27	18.3	38.4	21.0
OT98-14	26.6	25	9.9	1.2	23	18.7	43.5	18.2
OT99-8	37.7	19	2.1	1.1	23	16.2	38.0	21.7
OT99-13	41.9	4	4.3	1.1	25	17.4	39.3	19.9

120.1 Days After Planting

UNIFORM TEST 00, 2000

1999-2000 2-YEAR MEAN

No. of Tests Strain	Yield 14 bu/a	Rank 14 No.	Maturity 15 Date	Lodging 15 Score	Plant Height 15 In.	Seed Size 14 g/100	Composition Protein 8 %	 Oil 8 %
McCall	38.7	3	9/15	1.3	25	15.9	39.3	20.9
Glacier	43.3	2	4.8	1.4	26	17.6	40.8	20.2
Traill	44.8	1	7.0	1.3	27	17.5	41.2	19.9
OT98-14	37.2	4	8.4	1.2	25	18.5	43.5	18.7

116.3 Days After Planting

UNIFORM TEST 00, 2000

YIELD (bu/a)

Strain	Mean 7 Tests	Fayette-* ville AR	Morden Man.	Moor-head MN	Shelly MN	Cassel-ton ND	Beachburg Ont.	Elora Ont.	St. Bruno de Montarville Que.
McCall (00)	34.9	39.9	61.7	34.8	28.1	18.5	33.1	40.8	27.1
Jim	37.6	40.3	68.2	34.6	33.1	16.2	40.6	41.8	28.9
Glacier	38.6	44.6	64.3	36.5	23.6	24.9	38.8	50.9	31.4
Traill (0)	40.5		61.1	39.4	34.0	28.0	42.3	51.9	26.9
M93-310162	39.5	44.6	67.5	36.7	31.7	31.6	38.8	43.7	26.7
M94-135019	39.8	45.5	65.5	31.4	33.0	29.9	43.9	46.5	28.5
M94-135066	42.6	48.6	62.3	38.5	38.7	28.5	49.5	50.5	30.6
M94-161045	43.9	38.1	75.0	44.2	37.2	25.9	45.4	49.7	29.9
M94-161151	40.4		70.3	36.6	32.7	18.0	48.4	46.9	30.2
M94-208020	37.9	43.5	59.5	38.3	32.8	23.5	41.7	41.7	27.5
M95-116011	39.3	39.4	71.4	26.0	28.4	22.2	46.5	52.3	28.2
ND97-935	41.4	45.1	62.1	39.1	37.9	31.9	43.0	46.0	30.1
ND97-1064	41.6	38.1	73.6	36.1	35.4	22.8	45.7	49.1	28.2
ND97-1211	41.8	48.9	67.6	46.8	34.2	23.1	43.6	45.4	32.1
ND97-1385	40.3	32.2	62.7	48.2	27.5	23.1	44.6	46.6	29.4
ND97-1701	32.5	39.9	57.6	31.8	25.6	16.1	36.9	38.9	20.8
ND97-1702	36.6	37.1	64.9	31.0	23.3	23.7	41.3	45.7	26.5
ND97-1707	34.0	36.5	67.9	26.9	22.6	23.0	33.8	41.1	22.7
ND97-1763	40.3	37.3	62.5	39.5	39.7	23.3	43.0	42.9	31.0
OAC 98-01	42.2	45.2	73.1	42.0	27.9	21.3	52.4	47.2	31.5
OAC 98-32	38.6	40.6	61.1	31.3	32.5	25.6	40.3	45.3	34.0
OAC 99-02	38.3	41.7	62.6	31.0	35.1	27.0	35.5	50.1	26.9
OT98-14	26.6		38.5	29.1	21.5	17.3	24.5	32.5	22.9
OT99-8	37.7	40.5	63.8	34.3	24.4	26.6	45.7	43.0	26.4
OT99-13	41.9	55.0	66.0	43.0	35.1	32.1	47.2	42.8	27.5
C.V. (%)		14.5	5.3	10.1	14.5	22.0	8.0	9.9	7.2
L.S.D. (5%)		9.9	7.1	6.0	7.2	8.8	3.2	5.3	3.2
Row Sp. (in.)		7	8	10	10	30	16	14	7
Rows/Plot		7	5	8	8	4	4	4	5
Reps		3	2	3	3	3	4	4	3

* Data not included in the mean.

UNIFORM TEST 00, 2000

YIELD RANK

Strain	Yield Rank	Fayette-* ville AR	Morden Man.	Moor-head MN	Shelly MN	Cassel-ton ND	Beachburg Ont.	Elora Ont.	St. Bruno de Montarville Que.
McCall (00)	22	14	20	15	17	21	24	23	17
Jim	20	13	6	16	10	24	17	20	11
Glacier	15	8	13	13	22	11	19	3	4
Traill (0)	8		21	7	9	6	14	2	19
M93-310162	13	8	9	11	15	3	20	16	20
M94-135019	12	5	11	19	11	4	10	11	12
M94-135066	2	4	18	9	2	5	2	4	6
M94-161045	1	16	1	3	4	9	8	6	9
M94-161151	9		5	12	13	22	3	9	7
M94-208020	18	9	23	10	12	13	15	21	15
M95-116011	14	15	4	25	16	19	5	1	14
ND97-935	7	7	19	8	3	2	12	12	8
ND97-1064	6	16	2	14	5	18	7	7	13
ND97-1211	5	3	8	2	8	15	11	14	2
ND97-1385	10	20	15	1	19	15	9	10	10
ND97-1701	24	14	24	18	20	25	21	24	25
ND97-1702	21	18	12	21	23	12	16	13	21
ND97-1707	23	19	7	24	24	17	23	22	24
ND97-1763	10	17	17	6	1	14	13	18	5
OAC 98-01	3	6	3	5	18	20	1	8	3
OAC 98-32	15	11	22	20	14	10	18	15	1
OAC 99-02	17	10	16	21	6	7	22	5	18
OT98-14	25		25	23	25	23	25	25	23
OT99-8	19	12	14	17	21	8	6	17	22
OT99-13	4	2	10	4	6	1	4	19	16

* Data not included in the mean.

UNIFORM TEST 00, 2000

MATURITY (date)

Strain	Mean 7 Tests	Fayette-* ville AR	Morden Man.	Moor- head MN	Shelly MN	Cassel- ton ND	Beachburg Ont.	Elora Ont.	St. Bruno de Montarville Que.
McCall (00)	09/17	07/13	09/13	09/03	09/08	09/13	10/03	09/26	09/26
Jim	2.5	1	1	3	6	2	1	2	2
Glacier	2.2	2	4	1	0	2	1	5	2
Traill (0)	6.5		10	9	8	6	3	4	5
M93-310162	1.2	-1	2	2	5	2	-1	-1	-1
M94-135019	3.2	1	2	2	6	4	4	4	8
M94-135066	1.1	0	0	0	2	1	-1	2	3
M94-161045	8.0	-1	12	9	8	2	5	12	8
M94-161151	4.6		8	7	5	0	2	5	5
M94-208020	2.5	1	4	3	5	1	1	2	1
M95-116011	2.3	-1	3	3	5	0	1	1	3
ND97-935	7.1	-1	11	10	9	0	5	8	7
ND97-1064	5.0	-1	6	8	8	3	2	3	5
ND97-1211	5.6	5	8	6	8	2	2	7	6
ND97-1385	1.9	-1	3	2	2	2	-1	1	4
ND97-1701	-1.3	1	0	0	-1	0	-4	-3	-1
ND97-1702	1.8	2	1	2	2	3	-0	2	3
ND97-1707	-2.2	0	-1	0	-1	1	-7	-6	-1
ND97-1763	6.1	3	4	5	6	10	3	7	8
OAC 98-01	4.7	3	3	5	6	2	3	9	5
OAC 98-32	6.5	5	9	13	9	2	1	5	6
OAC 99-02	7.0	6	8	15	10	1	4	5	6
OT98-14	9.9		11	15	13	10	4	11	6
OT99-8	2.1	2	4	4	2	1	-2	3	3
OT99-13	4.3	-2	6	10	9	2	-2	0	5
Date Planted	05/20	04/25	05/15	05/10	05/10	05/14	05/26	06/07	05/29
Days to Mature	120	79	121	116	121	122	130	111	120

* Data not included in the mean.

UNIFORM TEST 00, 2000

LODGING (score)

Strain	Mean 7 Tests	Fayette-* ville AR	Morden Man.	Moor-head MN	Shelly MN	Cassel-ton ND	Beachburg Ont.	Elora Ont.	St. Bruno de Montarville Que.
McCall (00)	1.2	1.0	1.0	1.0	1.0	1.0	2.6	1.0	1.0
Jim	1.2	1.0	1.4	1.0	1.0	1.0	2.1	1.0	1.0
Glacier	1.4	1.0	2.0	1.0	1.0	1.0	2.6	1.0	1.0
Traill (0)	1.3		1.0	1.7	1.0	1.0	2.3	1.0	1.0
M93-310162	1.1	1.0	1.0	1.0	1.0	1.0	1.7	1.0	1.0
M94-135019	1.3	1.0	1.0	1.0	1.0	1.0	2.8	1.1	1.3
M94-135066	1.3	1.0	0.9	1.3	1.0	1.0	2.3	1.4	1.0
M94-161045	1.5	1.0	1.6	1.0	1.0	1.0	3.2	1.5	1.3
M94-161151	1.2		1.1	1.0	1.0	1.0	2.3	1.0	1.0
M94-208020	1.5	1.0	1.9	1.0	1.0	1.0	3.0	1.5	1.0
M95-116011	1.1	1.0	1.0	1.3	1.0	1.0	1.5	1.0	1.0
ND97-935	1.6	1.0	1.9	1.3	1.0	1.0	3.1	1.8	1.3
ND97-1064	1.3	1.0	2.1	1.0	1.0	1.0	2.2	1.1	1.0
ND97-1211	1.2	1.0	1.5	1.0	1.0	1.0	2.0	1.0	1.0
ND97-1385	1.2	1.0	1.0	1.0	1.0	1.0	2.4	1.3	1.0
ND97-1701	1.1	1.0	1.0	1.0	1.0	1.0	1.6	1.1	1.0
ND97-1702	1.4	1.0	2.0	1.0	1.0	1.0	2.5	1.4	1.0
ND97-1707	1.1	1.0	1.0	1.0	1.0	1.0	1.7	1.1	1.0
ND97-1763	1.2	1.0	1.0	1.0	1.0	1.0	2.0	1.3	1.3
OAC 98-01	1.8	1.0	2.0	1.3	1.0	1.0	3.3	2.1	2.0
OAC 98-32	1.2	1.0	1.0	1.7	1.0	1.0	1.6	1.0	1.0
OAC 99-02	1.3	1.0	1.0	1.0	1.0	1.0	3.0	1.4	1.0
OT98-14	1.2		1.5	1.0	1.0	1.0	2.0	1.0	1.0
OT99-8	1.1	1.0	1.1	1.0	1.0	1.0	1.4	1.0	1.0
OT99-13	1.1	1.0	1.0	1.3	1.0	1.0	1.5	1.0	1.0

* Data not included in the mean.

UNIFORM TEST 00, 2000

PLANT HEIGHT (inches)

Strain	Mean 7 Tests	Fayette-* ville AR	Morden Man.	Moor-head MN	Shelly MN	Cassel-ton ND	Beachburg Ont.	Elora Ont.	St. Bruno de Montarville Que.
McCall (00)	23	17	30	17	17	15	30	28	22
Jim	22	19	29	19	23	15	28	22	21
Glacier	24	20	32	17	16	22	29	29	25
Traill (0)	26		33	21	21	23	31	28	22
M93-310162	24	13	32	19	21	18	29	25	23
M94-135019	25	16	28	19	21	19	32	28	27
M94-135066	26	17	30	22	20	24	33	31	24
M94-161045	27	18	38	20	22	21	32	31	25
M94-161151	26		33	20	19	21	33	28	26
M94-208020	24	20	29	19	21	17	31	27	23
M95-116011	23	16	30	18	18	17	29	26	21
ND97-935	27	20	35	20	23	21	33	30	26
ND97-1064	25	18	30	20	23	21	30	27	23
ND97-1211	24	19	31	21	20	18	30	26	21
ND97-1385	24	15	30	19	19	19	31	29	23
ND97-1701	21	17	30	16	13	19	27	22	19
ND97-1702	26	20	33	18	17	23	34	31	25
ND97-1707	23	15	28	17	17	19	29	27	21
ND97-1763	26	20	32	19	21	23	33	30	27
OAC 98-01	25	21	31	18	17	22	31	28	25
OAC 98-32	25	19	31	19	19	25	31	27	23
OAC 99-02	27	19	31	23	23	28	31	28	25
OT98-14	23		32	17	18	21	24	24	24
OT99-8	23	15	27	16	15	23	30	26	21
OT99-13	25	19	32	22	18	25	31	25	21

* Data not included in the mean.

UNIFORM TEST 00, 2000

SEED SIZE (g/100)

Strain	Mean 7 Tests	Fayette-ville AR	Morden Man.	Moor-head MN	Shelly MN	Cassel-ton ND	Beachburg Ont.	Elora Ont.	St. Bruno de Montarville Que.
McCal[illegible]00)	16.1		14.3	14.0	13.1	15.6	16.5	17.0	22.0
Jim	16.5		16.2	13.5	12.6	17.5	17.6	16.8	21.0
Glacier	17.2		15.8	13.9	13.1	16.0	17.3	19.3	25.0
Traill (0)	17.4		16.2	15.3	14.5	17.4	17.7	18.4	22.0
M93-310162	14.9		13.1	12.1	11.2	14.8	14.8	15.4	23.0
M94-135019	16.7		15.3	13.4	12.3	15.4	16.9	16.4	27.0
M94-135066	17.2		15.6	14.1	14.0	18.0	17.4	17.2	24.0
M94-161045	15.6		14.3	13.1	13.6	14.8	14.2	14.5	25.0
M94-161151	15.9		14.3	14.0	13.6	14.5	14.4	14.8	26.0
M94-208020	16.9		15.0	13.9	13.4	17.4	18.2	17.2	23.0
M95-116011	18.7		17.3	16.0	15.0	18.9	21.3	21.3	21.0
ND97-935	15.9		13.9	14.0	12.3	16.1	14.2	14.5	26.0
ND97-1064	16.5		15.7	13.9	13.0	16.4	17.2	16.2	23.0
ND97-1211	16.9		16.5	14.0	14.2	15.9	18.4	18.4	21.0
ND97-1385	15.1		13.9	11.8	12.3	13.8	15.9	14.9	23.0
ND97-1701	14.6		14.7	11.8	11.8	15.5	15.4	14.3	19.0
ND97-1702	17.2		15.8	14.4	14.0	16.9	17.5	17.0	25.0
ND97-1707	15.8		16.0	12.3	12.9	16.8	16.3	15.6	21.0
ND97-1763	16.5		14.9	13.9	13.9	15.3	14.9	15.8	27.0
OAC 98-01	15.3		13.9	12.3	12.2	15.0	14.7	14.0	25.0
OAC 98-32	18.7		16.4	17.8	15.8	17.3	19.3	21.3	23.0
OAC 99-02	18.3		16.4	16.3	15.0	17.5	18.6	19.2	25.0
OT98-14	18.7		16.1	18.2	17.1	17.1	17.6	20.6	24.0
OT99-8	16.2		15.7	13.3	13.5	16.9	16.4	16.6	21.0
OT99-13	17.4		16.5	16.1	16.2	17.5	17.1	17.6	21.0

UNIFORM TEST 00, 2000

PROTEIN (%)

Strain	Mean 4 Tests	Morden Man.	Moorhead MN	Shelly MN	St.-Bruno-de-Montarville Que.
McCall (00)	38.7	36.0	38.0	39.3	41.6
Jim	38.3	37.4	37.8	36.7	41.1
Glacier	39.5	38.1	39.8	38.2	42.0
Traill (0)	40.5	38.6	40.3	39.2	43.8
M93-310162	40.2	39.3	39.4	39.1	43.1
M94-135019	38.2	35.2	38.5	38.2	40.9
M94-135066	38.9	36.4	39.2	37.9	42.2
M94-161045	38.5	37.1	36.8	38.8	41.5
M94-161151	39.4	37.4	38.8	39.4	42.1
M94-208020	38.5	37.9	37.5	37.1	41.5
M95-116011	39.7	37.9	39.9	37.8	43.2
ND97-935	38.6	36.8	37.5	38.2	41.8
ND97-1064	40.7	40.0	39.5	38.8	44.5
ND97-1211	40.1	39.5	39.4	37.8	43.6
ND97-1385	37.4	34.4	36.5	38.2	40.3
ND97-1701	39.0	36.4	39.7	38.8	41.1
ND97-1702	38.6	36.6	37.6	38.5	41.5
ND97-1707	38.8	38.3	38.1	38.5	40.3
ND97-1763	37.0	34.6	35.3	37.1	40.9
OAC 98-01	38.4	36.6	38.5	37.5	41.0
OAC 98-32	39.6	35.9	40.4	40.6	41.5
OAC 99-02	38.4	35.6	37.9	38.0	42.2
OT98-14	43.5	40.1	42.9	43.4	47.7
OT99-8	38.0	37.2	37.1	37.5	40.4
OT99-13	39.3	36.0	39.6	39.2	42.4

UNIFORM TEST 00, 1998

OIL (%)

Strain	Mean 4 Tests	Morden Man.	Moorhead MN	Shelly MN	St.-Bruno-de-Montarville Que.
McCall (00)	20.9	21.7	21.2	20.7	20.1
Jim	20.9	21.0	21.2	20.9	20.3
Glacier	20.1	20.6	20.2	19.2	20.5
Traill (0)	19.7	20.1	19.9	19.7	19.3
M93-310162	20.7	21.1	20.9	20.0	20.6
M94-135019	22.1	23.7	21.9	20.8	22.2
M94-135066	21.4	22.7	21.5	21.2	20.4
M94-161045	20.5	20.7	21.2	20.2	20.1
M94-161151	20.7	21.4	20.7	20.2	20.4
M94-208020	20.6	20.7	20.9	19.9	20.7
M95-116011	20.6	21.4	20.4	20.6	20.2
ND97-935	20.1	20.8	20.5	19.3	19.9
ND97-1064	20.0	20.2	20.5	20.0	19.5
ND97-1211	20.4	20.3	20.9	20.5	19.8
ND97-1385	22.4	23.1	23.1	21.3	21.9
ND97-1701	20.6	21.4	20.2	20.1	20.6
ND97-1702	20.8	21.3	21.4	20.7	20.0
ND97-1707	21.1	21.5	21.1	20.7	21.1
ND97-1763	21.3	22.0	22.3	20.7	20.2
OAC 98-01	22.0	22.8	22.2	21.4	21.5
OAC 98-32	20.8	22.5	20.5	19.4	20.7
OAC 99-02	21.0	22.3	20.5	20.3	20.7
OT98-14	18.2	19.5	18.5	17.1	17.8
OT99-8	21.7	21.7	22.1	21.3	21.6
OT99-13	19.9	21.3	19.7	18.8	19.9

Uniform Test 0, 2000

	Strain	Parentage	Previous Testing	Generation Composited	Unique Traits
1.	Lambert (0)	M75-274 x M76-151	12	F5	Rps1
2.	Parker (I)	A79-136012 x Dawson	9	F5	Rps1
3.	Surge (0)	A86-204022 x Kato	1	F5	
4.	Traill (E)	M82-996 x Sigco KG20	4	F5	
5.	MN0902CN (SCN)	Jack x Alpha	3	F5	SCN
6.	M90-135046	Ozzie x OT88-11	3	F5	Rps1
7.	M90-217007	M84-93 x Archer	3	F5	Rps1k, BSR
8.	M91-131051	Harmony x Agassiz	1	F5	Rps1a
9.	M92-160047	ND(M)88-621 x Maple Glen	PT 0	F5	Rps1a
10.	M92-179009	Parker x Pioneer 5096-03D	PT 0	F5	Rps1a
11.	M92-179024	Parker x Pioneer 5096-03D	PT 0	F5	Rps1a
12.	M92-185003	Archer a Glacier	PT 0	F5	Rps1k, Rps6
13.	M92-285024	Sturdy x Evans	PT 0	F5	Rps1a
14.	M93-142040	Kasota x Kato	PT 0	F4	Rps1a
15.	M92-105082	Agassiz x [Sturdy (4) x Elgin 87]	1	F4	Rps1k
16.	ND95-931	ND88-800 x Pioneer 9061	1	F4	Rps6
17.	ND95-6634	Alpha x OT90-9	PT 0	F5	SCN
18.	ND96-1593	ND88-800 x Council	PT 0	F5	Rps6
19.	ND96-8929	ND88-800 x Council	PT 0	F5	Rps6
20.	OAC 98-02	S 02-30 x M87-170	UT 00	F5	
21.	OAC 98-04	S 02-30 x M88-84	UT 00	F5	
22.	ORC 9801	RCAT 9201 x Pioneer 9273	PT 0	F5	
23.	ORC 9802	RCAT 9208 x Blackjack 21	PT 0	F5	
24.	ORC 9803	PS42 x Northrup King S20-20	PT 0	F5	
25.	SD96-33	IA2008 x Hendricks	PT 0	F5	
26.	SD96-702	ORC9002 x Ozzie	PT 0	F5	
27.	SD96-1659	Kato x Hendricks	PT 0	F5	
28.	SD96-1699	Kato x Hendricks	PT I	F5	
29.	SD96-1712	Kato x Hendricks	PT 0	F5	
30.	SD96-2156	Parker x SD(M)91-1574	PT 0	F5	

UNIFORM TEST 0, 2000

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Greenstem Score Arlington %	Shattering Score Manhattan	Chlorosis Score Rosemount	PR Lafayette Race 7
Lambert (0)	PGBSYBflep	0.5	2.0	4.5	S
Parker (I)	WGBDYBrIEp	1.3	2.0	4.5	S
Surge (0)	PGBDYIblep	0.8	2.0	4.3	R
Traill (E)	PTBDYYIEp	0.0	1.0	3.5	R
MN0902CN (SCN)	WTBDYYIep	1.0	1.0	4.0	R
M90-135046	PTBDYYIEp	0.3	2.0	3.7	S
M90-217007	PGTDYBflEp	0.0	2.0	4.0	R
M91-131051	PGBDYBflEp	0.0	3.0	4.5	S
M92-160047	PGBDYIbIEp	0.5	2.0	4.5	S
M92-179009	PGBDYYIH	0.3	1.0	4.0	S
M92-179024	PGBDYBflEp	2.0	1.0	4.7	S
M92-185003	PGTDYIbIep	0.5	3.0	4.0	R
M92-285024	PGBDYBllEp	0.5	3.0	4.2	S
M93-142040	P+WTBDYBrIEp	0.3	1.0	4.0	R
M92-105082	PGBDYIbIEp	1.3	3.0	4.5	S
ND95-931	PGBDYBflEp	0.5	3.0	4.5	S
ND95-6634	PGBDYBflEp	0.0	2.0	4.0	S
ND96-1593	WGBDYYIEp	0.8	2.0	4.5	S
ND96-8929	PGBDYYIEp	0.3	1.0	4.3	S
OAC 98-02	PTBSYBllEp	1.5	3.0	4.7	S
OAC 98-04	PTBDYBllEp	0.0	2.0	4.7	S
ORC 9801	PTBDYBllEp	1.0	2.0	4.7	S
ORC 9802	PTBDYBllEp	0.3	2.0	4.5	R
ORC 9803	PTBDYYIep	0.3	1.0	4.0	S
SD96-33	P+WGTDYBrIEp	2.5	2.0	4.2	S
SD96-702	PGBDYBflep	0.5	2.0	4.5	S
SD96-1659	PTBDYYIep	0.0	2.0	4.3	R
SD96-1699	PTBDYGIep	0.8	2.0	3.7	R
SD96-1712	PGBDYBflep	0.0	2.0	4.0	S
SD96-2156	WTBDYBllEp	1.0	3.0	4.5	R

UNIFORM TEST 0, 2000

REGIONAL SUMMARY

No. of Tests Strain	Yield 9 bu/a	Rank 9 No.	Maturity 9 Date	Lodging 9 Score	Plant Height 9 In.	Seed Size 9 g/100	Composition Protein 5 %	 Oil 5 %
Lambert (0)	46.3	10	9/19	1.3	30	16.1	41.4	20.9
Parker (I)	47.3	3	5.8	1.6	34	16.9	41.2	19.9
Surge (0)	48.1	2	2.0	1.2	29	19.3	42.7	19.8
Traill (E)	38.0	30	-5.5	1.4	27	16.8	42.6	19.3
MN0902CN (SCN)	43.7	19	-0.5	1.4	30	14.7	43.1	18.9
M90-135046	40.1	27	-4.1	1.5	30	14.6	43.2	19.2
M90-217007	41.7	24	-4.3	1.1	29	14.8	40.6	20.5
M91-131051	42.0	23	-2.6	1.3	27	13.5	41.1	20.2
M92-160047	46.5	8	2.8	1.4	30	15.4	39.9	20.4
M92-179009	45.9	12	2.5	1.4	29	17.1	40.5	20.4
M92-179024	45.3	14	3.6	1.7	31	15.2	40.6	19.9
M92-185003	41.3	26	-3.6	1.3	28	17.0	41.4	20.4
M92-285024	47.0	4	1.3	1.7	35	16.7	40.5	19.6
M93-142040	45.0	17	2.0	1.3	31	17.5	43.7	19.1
M92-105082	48.2	1	1.6	1.3	31	16.3	41.8	19.7
ND95-931	45.2	16	-4.7	1.3	29	17.4	40.7	21.2
ND95-6634	43.4	20	-4.3	1.2	27	13.9	41.4	19.3
ND96-1593	46.6	7	1.2	1.4	30	18.3	41.3	20.0
ND96-8929	39.8	29	-6.4	1.3	26	17.1	41.5	20.3
OAC 98-02	46.8	6	0.9	1.8	32	18.6	40.7	19.8
OAC 98-04	40.0	28	-0.5	1.2	26	19.7	40.8	19.8
ORC 9801	46.5	8	-0.2	1.2	31	17.6	39.2	21.0
ORC 9802	41.4	25	2.5	1.3	27	14.3	40.7	20.0
ORC 9803	46.9	5	2.7	1.3	34	16.9	42.0	19.4
SD96-33	42.4	21	2.9	1.3	32	14.0	42.8	19.1
SD96-702	45.5	13	1.6	1.5	31	16.0	40.1	20.6
SD96-1659	42.4	21	0.2	1.3	31	19.0	42.0	19.5
SD96-1699	44.3	18	2.1	1.3	30	18.8	41.9	20.0
SD96-1712	45.3	14	3.2	1.3	31	17.8	43.4	19.1
SD96-2156	46.2	11	0.5	1.7	31	17.5	41.2	19.7

126.8 Days After Planting

UNIFORM TEST 0, 2000

1999-2000 2-YEAR MEAN

No. of Tests Strain	Yield 18 bu/a	Rank 18 No.	Maturity 18 Date	Lodging 18 Score	Plant Height 18 In.	Seed Size 18 g/100	Composition Protein 9 %	 Oil 9 %
Lambert	47.1	4	9/18	1.4	31	16.3	41.5	21.0
Parker	49.7	2	7.2	2.1	36	17.5	41.1	20.3
Surge	50.6	1	2.4	1.3	31	19.8	42.4	20.3
Traill	40.4	9	-7.4	1.6	28	16.1	41.6	19.8
M90-135046	41.8	8	-4.7	1.6	32	14.4	43.3	19.6
M90-217007	44.2	7	-3.9	1.1	31	15.1	40.8	20.8
M91-131051	44.7	6	-3.2	1.4	29	13.5	41.2	20.5
M92-105082	49.1	3	1.6	1.4	32	16.9	42.2	20.0
ND95-931	45.0	5	-4.8	1.4	31	17.3	40.8	21.3

125.1 Days After Planting

1998-2000 3-YEAR MEAN

No. of Tests Strain								
	27	27	27	27	27	26	14	14
Lambert	48.9	2	9/17	1.5	30	16.7	41.3	21.2
Parker	52.7	1	6.5	2.1	36	18.0	41.1	20.5
Traill	41.7	5	-7.1	1.6	27	16.6	41.8	19.9
M90-135046	43.3	4	-4.5	1.6	32	14.8	43.2	19.8
M90-217007	45.4	3	-3.6	1.2	30	15.6	40.7	20.9

124.4 Days After Planting

1997-2000 4-YEAR MEAN

No. of Tests Strain								
	35	35	35	35	35	33	19	19
Lambert	46.8	2	9/16	1.5	30	16.7	41.1	21.0
Parker	51.3	1	7.2	2.1	36	18.0	41.0	20.3
Traill	40.1	5	-7.0	1.6	27	16.7	41.9	19.7
M90-135046	42.0	4	-4.3	1.6	31	14.8	43.0	19.5
M90-217007	44.1	3	-3.4	1.2	30	15.5	40.5	20.8

124.4 Days After Planting

UNIFORM TEST 0, 2000

YIELD (bu/a)

Strain	Mean 9 Tests	Fayetteville* AR	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.
Lambert (0)	46.3	49.2	64.2	48.7	33.9	56.8
Parker (I)	47.3	65.6	60.1	57.1	39.8	55.0
Surge (0)	48.1	50.8	66.7	48.3	39.6	57.6
Traill (E)	38.0	51.6	52.9	26.1	31.6	48.3
MN0902CN (SCN)	43.7	44.5	56.2	44.4	32.9	49.1
M90-135046	40.1	39.4	54.1	36.7	33.4	49.9
M90-217007	41.7	39.9	52.1	41.1	37.2	53.5
M91-131051	42.0	49.9	56.4	37.2	31.0	51.7
M92-160047	46.5	44.3	55.3	54.6	39.7	55.6
M92-179009	45.9	42.1	63.7	45.6	35.4	54.5
M92-179024	45.3	52.3	61.6	52.3	43.6	53.2
M92-185003	41.3	48.7	53.0	40.3	33.1	53.2
M92-285024	47.0	57.4	51.6	54.5	40.0	56.7
M93-142040	45.0	43.7	58.3	47.0	37.9	52.1
M92-105082	48.2	43.9	67.0	47.4	46.1	56.5
ND95-931	45.2	42.6	55.0	42.2	35.4	50.9
ND95-6634	43.4	31.7	57.5	38.8	40.4	53.4
ND96-1593	46.6	48.4	67.9	38.7	43.6	54.1
ND96-8929	39.8	40.4	55.4	32.9	31.2	48.1
OAC 98-02	46.8	52.6	61.0	49.5	40.2	54.6
OAC 98-04	40.0	32.7	53.5	38.1	39.1	44.2
ORC 9801	46.5	46.5	60.0	41.2	46.1	53.7
ORC 9802	41.4	58.4	47.3	30.8	38.5	50.7
ORC 9803	46.9	65.2	57.3	50.6	43.1	50.7
SD96-33	42.4	37.2	59.6	40.2	39.9	51.3
SD96-702	45.5	37.4	60.9	45.6	26.4	54.5
SD96-1659	42.4	44.8	60.3	37.3	37.8	50.6
SD96-1699	44.3	44.1	53.9	43.7	37.6	51.7
SD96-1712	45.3	45.4	56.7	48.5	38.9	51.7
SD96-2156	46.2	52.6	58.5	49.3	38.2	54.0
C.V. (%)		13.3	9.2	11.3	16.2	5.1
L.S.D. (5%)		10.3	8.7	7.9	10.0	2.7
Row Sp. (In.)		7	10	10	30	16
Rows/Plot		7	10	10	4	4
Reps		3	3	3	3	4

* Data not included in the mean.

UNIFORM TEST 0, 2000

YIELD (bu/a)

Strain	Woodstock Ont.	St. Bruno de Montarville Que.	Brookings SD	Watertown SD	Arlington WI
Lambert (0)	47.1	34.5	38.0	36.8	56.5
Parker (I)	46.0	28.3	44.1	35.3	60.1
Surge (0)	50.6	31.3	38.6	39.5	60.5
Traill (E)	45.3	24.5	34.4	38.0	40.7
MN0902CN (SCN)	46.4	35.7	37.2	40.0	51.6
M90-135046	44.4	30.6	33.6	32.5	46.1
M90-217007	44.9	26.0	35.8	35.2	49.6
M91-131051	47.0	31.3	37.1	35.1	51.1
M92-160047	43.2	32.4	39.1	37.9	60.6
M92-179009	46.3	29.6	36.6	41.0	60.4
M92-179024	40.8	29.6	38.5	33.9	54.5
M92-185003	44.9	24.7	37.2	35.9	49.2
M92-285024	49.6	30.6	44.3	39.3	56.0
M93-142040	50.5	29.4	37.7	32.2	59.8
M92-105082	51.7	31.0	38.4	32.0	63.7
ND95-931	50.3	31.4	43.3	43.7	54.8
ND95-6634	43.1	30.3	39.9	36.0	51.4
ND96-1593	46.3	30.8	39.9	34.4	64.0
ND96-8929	42.6	29.1	34.2	36.6	48.4
OAC 98-02	52.9	34.3	40.2	33.7	54.7
OAC 98-04	43.6	30.0	37.0	31.4	43.1
ORC 9801	53.6	32.8	40.6	34.2	56.4
ORC 9802	51.9	30.3	40.9	33.4	48.7
ORC 9803	51.8	28.6	41.8	35.3	62.7
SD96-33	43.7	25.2	32.4	35.1	54.3
SD96-702	52.3	34.2	37.5	40.3	58.2
SD96-1659	46.2	28.8	34.2	31.0	55.7
SD96-1699	49.2	28.8	39.2	38.8	55.7
SD96-1712	45.1	28.1	37.7	44.4	56.8
SD96-2156	51.3	34.7	39.3	34.6	56.3
C.V. (%)	8.4	9.6	8.8	16.9	5.5
L.S.D. (5%)	4.7	5.3	5.5	10.0	2.8
Row Sp. (In.)	14	7	30	30	15
Rows/Plot	4	5	4	4	6
Reps	4	3	3	3	4

UNIFORM TEST 0, 2000

YIELD RANK

Strain	Yield Rank	Fayetteville* AR	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.
Lambert (0)	10	10	4	8	23	2
Parker (I)	3	1	10	1	10	6
Surge (0)	2	8	3	10	12	1
Traill (E)	30	7	27	30	27	28
MN0902CN (SCN)	19	16	19	15	26	27
M90-135046	27	25	23	27	24	26
M90-217007	24	24	28	19	20	13
M91-131051	23	9	18	26	29	20
M92-160047	8	17	21	2	11	5
M92-179009	12	22	5	13	21	9
M92-179024	14	6	6	4	3	16
M92-185003	26	11	26	20	25	15
M92-285024	4	4	29	3	8	3
M93-142040	17	20	14	12	17	17
M92-105082	1	19	2	11	1	4
ND95-931	16	21	22	17	21	22
ND95-6634	20	29	15	22	6	14
ND96-1593	7	12	1	23	3	10
ND96-8929	29	23	20	28	28	29
OAC 98-02	6	5	7	6	7	7
OAC 98-04	28	28	25	24	13	30
ORC 9801	8	13	11	18	1	12
ORC 9802	25	3	30	29	15	24
ORC 9803	5	2	16	5	5	23
SD96-33	21	27	12	21	9	21
SD96-702	13	26	8	13	30	8
SD96-1659	21	15	9	25	18	25
SD96-1699	18	18	24	16	19	18
SD96-1712	14	14	17	9	14	19
SD96-2156	11	5	13	7	16	11

* Data not included in the mean.

UNIFORM TEST 0, 2000

YIELD RANK

Strain	Woodstock Ont.	St. Bruno de Montarville Que.	Brookings SD	Watertown SD	Arlington WI
Lambert (0)	13	3	16	11	11
Parker (I)	19	25	2	15	7
Surge (0)	8	9	13	6	5
Traill (E)	20	30	26	9	30
MN0902CN (SCN)	15	1	20	5	21
M90-135046	24	13	29	26	28
M90-217007	23	27	25	17	24
M91-131051	14	10	22	18	23
M92-160047	27	7	12	10	4
M92-179009	16	19	24	3	6
M92-179024	30	18	14	23	19
M92-185003	22	29	20	14	25
M92-285024	11	14	1	7	14
M93-142040	9	20	17	27	8
M92-105082	6	11	15	28	2
ND95-931	10	8	3	2	17
ND95-6634	28	16	8	13	22
ND96-1593	17	12	8	21	1
ND96-8929	29	21	27	12	27
OAC 98-02	2	4	7	24	18
OAC 98-04	26	17	23	29	29
ORC 9801	1	6	6	22	12
ORC 9802	4	15	5	25	26
ORC 9803	5	24	4	15	3
SD96-33	25	28	30	18	20
SD96-702	3	5	19	4	9
SD96-1659	18	23	27	30	15
SD96-1699	12	22	11	8	15
SD96-1712	21	26	17	1	10
SD96-2156	7	2	10	20	13

UNIFORM TEST 0, 2000

MATURITY (date)

Strain	Mean 9 Tests	Fayetteville* AR	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.
Lambert (0)	09/19	07/19	09/19	09/15	09/25	10/01
Parker (I)	5.8	5	3	4	7	4
Surge (0)	2.0	1	0	1	4	1
Traill (E)	-5.5	-4	-2	-12	-5	-4
MN0902CN (SCN)	-0.5	-2	0	-1	-4	0
M90-135046	-4.1	-6	-1	-8	0	-3
M90-217007	-4.3	-4	-3	-10	-6	-2
M91-131051	-2.6	-3	-2	-2	-1	-3
M92-160047	2.8	-1	1	0	6	2
M92-179009	2.5	1	1	1	3	1
M92-179024	3.6	-3	2	3	2	7
M92-185003	-3.6	-2	-3	-9	-6	0
M92-285024	1.3	2	0	-1	2	4
M93-142040	2.0	-1	0	0	5	2
M92-105082	1.6	0	1	0	-2	1
ND95-931	-4.7	-2	-2	-10	-4	-6
ND95-6634	-4.3	-5	-2	-10	-4	-6
ND96-1593	1.2	-3	0	-2	1	4
ND96-8929	-6.4	-4	-3	-16	-7	-7
OAC 98-02	0.9	-1	1	-1	3	1
OAC 98-04	-0.5	-1	-1	-1	2	0
ORC 9801	-0.2	0	-1	-2	3	0
ORC 9802	2.5	2	2	-1	4	7
ORC 9803	2.7	4	2	0	9	1
SD96-33	2.9	-2	2	3	5	1
SD96-702	1.6	0	0	0	3	2
SD96-1659	0.2	-3	-1	-1	-1	1
SD96-1699	2.1	0	0	1	2	2
SD96-1712	3.2	1	0	1	7	4
SD96-2156	0.5	0	-1	0	3	2
Date Planted	05/16	04/25	05/22	05/04	05/14	05/21
Days to Mature	127	85	120	134	134	133

* Data not included in the mean.

UNIFORM TEST 0, 2000

MATURITY (date)

Strain	Woodstock Ont.	St. Bruno de Montarville Que.	Brookings SD	Watertown SD	Arlington WI
Lambert (0)	09/24	10/08	09/10	09/06	09/11
Parker (I)	8	3	7	10	6
Surge (0)	4	2	-1	5	2
Traill (E)	-6	-5	-4	-3	-9
MN0902CN (SCN)	1	-3	-1	6	-3
M90-135046	-3	-6	-7	-3	-6
M90-217007	-4	-5	-2	-1	-6
M91-131051	-2	-5	-3	-1	-5
M92-160047	4	1	0	10	1
M92-179009	7	3	2	4	1
M92-179024	10	-2	-6	10	6
M92-185003	-2	-5	-4	2	-6
M92-285024	0	0	0	5	2
M93-142040	4	2	0	4	1
M92-105082	4	1	1	6	3
ND95-931	-4	0	-6	-4	-7
ND95-6634	-3	-1	-4	-4	-4
ND96-1593	2	1	0	5	-0
ND96-8929	-6	-4	-6	0	-8
OAC 98-02	3	1	0	0	1
OAC 98-04	0	0	-4	0	-1
ORC 9801	0	-1	-2	1	0
ORC 9802	6	2	-3	3	3
ORC 9803	3	0	0	5	4
SD96-33	8	-2	0	6	3
SD96-702	5	2	-1	4	-1
SD96-1659	0	-1	-1	5	1
SD96-1699	4	2	1	5	2
SD96-1712	6	1	2	5	3
SD96-2156	1	0	0	1	-1
Date Planted	06/01	05/29	05/05	05/15	05/03
Days to Mature	115	132	128	114	131

UNIFORM TEST 0, 2000

LODGING (score)

Strain	Mean 9 Tests	Fayetteville* AR	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.
Lambert (0)	1.3	1.0	1.3	1.0	1.0	1.0
Parker (I)	1.6	1.0	1.3	1.0	1.0	1.0
Surge (0)	1.2	1.0	1.0	1.0	1.0	1.0
Traill (E)	1.4	1.0	1.7	1.0	1.0	1.0
MN0902CN (SCN)	1.4	1.0	1.3	1.0	1.0	1.0
M90-135046	1.5	1.0	1.0	1.0	1.0	1.0
M90-217007	1.1	1.0	1.0	1.0	1.0	1.0
M91-131051	1.3	1.0	1.0	1.0	1.0	1.0
M92-160047	1.4	1.0	1.3	1.0	1.0	1.0
M92-179009	1.4	1.0	1.3	1.0	1.0	1.0
M92-179024	1.7	1.0	2.3	1.0	1.0	1.0
M92-185003	1.3	1.0	1.3	1.0	1.0	1.0
M92-285024	1.7	1.0	2.3	1.0	1.0	1.0
M93-142040	1.3	1.0	1.0	1.0	1.0	1.0
M92-105082	1.3	1.0	1.7	1.0	1.0	1.0
ND95-931	1.3	1.0	1.0	1.0	1.0	1.0
ND95-6634	1.2	1.0	1.0	1.0	1.0	1.0
ND96-1593	1.4	1.0	1.7	1.0	1.0	1.0
ND96-8929	1.3	1.0	1.0	1.0	1.0	1.0
OAC 98-02	1.8	1.0	2.0	1.0	1.0	1.0
OAC 98-04	1.2	1.0	1.0	1.0	1.0	1.0
ORC 9801	1.2	1.0	1.0	1.0	1.0	1.0
ORC 9802	1.3	1.0	1.0	1.0	1.0	1.0
ORC 9803	1.3	1.0	1.0	1.0	1.0	1.0
SD96-33	1.3	1.0	1.0	1.0	1.0	1.0
SD96-702	1.5	1.0	1.0	1.0	1.0	1.0
SD96-1659	1.3	1.0	1.0	1.0	1.0	1.0
SD96-1699	1.3	1.0	1.0	1.0	1.0	1.0
SD96-1712	1.3	1.0	1.0	1.0	1.0	1.0
SD96-2156	1.7	1.0	2.0	1.0	1.0	1.0

* Data not included in the mean.

UNIFORM TEST 0, 2000

LODGING (score)

Strain	Woodstock Ont.	St. Bruno de Montarville Que.	Brookings SD	Watertown SD	Arlington WI
Lambert (0)	1.3	1.0	2.0	1.0	2.3
Parker (I)	2.6	1.3	2.0	1.0	3.0
Surge (0)	1.3	1.0	2.0	1.0	1.8
Traill (E)	1.1	1.0	2.0	1.0	3.0
MN0902CN (SCN)	1.1	1.0	2.0	1.0	3.0
M90-135046	1.1	1.0	2.0	2.0	3.0
M90-217007	1.0	1.0	1.0	2.0	1.3
M91-131051	1.0	1.0	1.0	1.0	3.3
M92-160047	1.3	1.0	2.0	1.0	2.8
M92-179009	1.0	1.0	2.0	2.0	2.3
M92-179024	2.5	1.0	2.0	2.0	2.8
M92-185003	1.0	1.0	2.0	1.0	2.8
M92-285024	2.0	1.0	2.0	1.0	3.8
M93-142040	1.1	1.0	2.0	1.0	2.3
M92-105082	1.0	1.0	1.0	2.0	1.8
ND95-931	1.0	1.0	2.0	1.0	2.3
ND95-6634	1.0	1.0	1.0	1.0	2.5
ND96-1593	1.8	1.0	2.0	1.0	2.3
ND96-8929	1.0	1.0	2.0	1.0	2.5
OAC 98-02	1.8	1.3	2.0	2.0	3.8
OAC 98-04	1.0	1.0	2.0	1.0	2.0
ORC 9801	1.0	1.0	2.0	1.0	2.0
ORC 9802	1.1	1.3	2.0	2.0	1.0
ORC 9803	1.0	1.0	2.0	2.0	2.0
SD96-33	1.0	1.0	2.0	2.0	2.0
SD96-702	1.3	1.0	2.0	2.0	3.0
SD96-1659	1.0	1.0	2.0	2.0	2.0
SD96-1699	1.1	1.0	2.0	1.0	2.3
SD96-1712	1.1	1.0	1.0	2.0	2.5
SD96-2156	1.4	1.7	2.0	1.0	4.0

UNIFORM TEST 0, 2000

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Fayetteville* AR	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.
Lambert (0)	30	19	37	37	22	26
Parker (I)	34	26	39	39	32	31
Surge (0)	29	21	36	36	21	25
Traill (E)	27	17	34	34	24	22
MN0902CN (SCN)	30	17	35	35	27	24
M90-135046	30	17	35	35	23	26
M90-217007	29	17	33	33	24	26
M91-131051	27	18	34	34	17	24
M92-160047	30	18	33	33	24	28
M92-179009	29	18	36	37	26	23
M92-179024	31	22	39	39	26	28
M92-185003	28	20	36	36	23	24
M92-285024	35	24	51	45	30	31
M93-142040	31	22	40	40	24	26
M92-105082	31	20	36	36	24	26
ND95-931	29	19	34	34	24	24
ND95-6634	27	15	33	33	23	22
ND96-1593	30	19	40	40	23	26
ND96-8929	26	19	33	33	22	21
OAC 98-02	32	22	36	36	26	28
OAC 98-04	26	16	31	31	18	21
ORC 9801	31	20	38	38	27	25
ORC 9802	27	21	31	31	24	23
ORC 9803	34	25	40	45	32	24
SD96-33	32	20	42	42	24	24
SD96-702	31	20	36	36	20	26
SD96-1659	31	19	38	38	24	26
SD96-1699	30	18	37	37	25	24
SD96-1712	31	20	38	38	19	26
SD96-2156	31	22	38	38	26	25

* Data not included in the mean.

UNIFORM TEST 0, 2000

PLANT HEIGHT (inches)

Strain	Woodstock Ont.	St. Bruno de Montarville Que.	Brookings SD	Watertown SD	Arlington WI
Lambert (0)	30	27	24	34	29
Parker (I)	39	34	24	30	39
Surge (0)	31	23	26	32	31
Traill (E)	27	23	22	32	23
MN0902CN (SCN)	32	30	26	33	30
M90-135046	32	28	27	32	32
M90-217007	30	22	26	37	30
M91-131051	30	23	21	30	29
M92-160047	32	29	26	35	33
M92-179009	30	27	23	32	30
M92-179024	30	27	24	37	32
M92-185003	30	22	24	33	27
M92-285024	36	30	28	33	35
M93-142040	33	27	26	31	33
M92-105082	34	28	23	36	32
ND95-931	30	28	25	32	30
ND95-6634	28	25	26	29	27
ND96-1593	32	26	23	31	30
ND96-8929	27	23	22	29	27
OAC 98-02	34	29	29	33	35
OAC 98-04	26	24	25	33	26
ORC 9801	32	28	26	31	32
ORC 9802	30	27	24	30	24
ORC 9803	31	27	27	45	31
SD96-33	32	25	23	38	34
SD96-702	32	30	25	38	32
SD96-1659	31	25	26	37	33
SD96-1699	33	25	24	34	32
SD96-1712	33	24	24	42	32
SD96-2156	32	31	26	27	32

UNIFORM TEST 0, 2000

SEED SIZE (g/100)

Strain	Mean 9 Tests	Fayetteville AR	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.
Lambert (0)	16.1		17.8	16.9	15.9	17.3
Parker (I)	16.9		17.7	18.1	18.1	16.7
Surge (0)	19.3		19.6	21.2	18.6	19.7
Traill (E)	16.8		17.5	17.1	17.4	18.3
MN0902CN (SCN)	14.7		14.9	13.3	13.3	16.3
M90-135046	14.6		16.1	15.0	15.1	14.9
M90-217007	14.8		16.4	14.9	15.8	15.8
M91-131051	13.5		13.5	15.7	13.0	14.2
M92-160047	15.4		15.6	16.4	16.5	15.5
M92-179009	17.1		18.1	18.2	17.5	17.8
M92-179024	15.2		17.6	16.6	14.5	15.5
M92-185003	17.0		17.4	17.0	17.9	17.0
M92-285024	16.7		18.3	17.2	17.8	17.0
M93-142040	17.5		18.5	18.7	18.3	17.6
M92-105082	16.3		18.0	17.8	18.9	15.8
ND95-931	17.4		18.2	18.7	18.0	16.7
ND95-6634	13.9		14.0	16.6	14.2	14.2
ND96-1593	18.3		18.3	20.6	17.6	17.8
ND96-8929	17.1		17.8	18.3	17.4	17.3
OAC 98-02	18.6		19.0	20.5	20.1	19.7
OAC 98-04	19.7		20.7	21.7	19.0	20.2
ORC 9801	17.6		16.7	20.2	17.7	18.6
ORC 9802	14.3		14.5	16.8	14.1	14.7
ORC 9803	16.9		15.6	18.5	17.1	18.7
SD96-33	14.0		13.6	15.5	15.8	13.8
SD96-702	16.0		16.6	15.9	15.7	17.0
SD96-1659	19.0		18.9	19.7	18.4	19.5
SD96-1699	18.8		18.6	19.9	18.8	20.8
SD96-1712	17.8		19.9	18.6	18.7	17.6
SD96-2156	17.5		19.1	17.6	18.7	17.2

UNIFORM TEST 0, 2000

SEED SIZE (g/100)

Strain	Woodstock Ont.	St. Bruno de Montarville Que.	Brookings SD	Watertown SD	Arlington WI
Lambert (0)	16.5	18.6	12.9	12.4	16.5
Parker (I)	18.7	16.3	14.6	14.0	17.7
Surge (0)	21.5	19.6	16.9	15.6	21.3
Traill (E)	17.6	18.6	14.6	13.6	16.3
MN0902CN (SCN)	17.1	15.8	11.6	15.3	14.4
M90-135046	15.1	15.7	13.7	11.9	13.8
M90-217007	14.7	15.9	13.3	12.1	14.6
M91-131051	13.6	14.5	12.1	11.7	13.4
M92-160047	15.0	15.4	13.7	14.0	16.2
M92-179009	19.1	17.1	14.7	13.4	18.0
M92-179024	16.0	14.9	13.5	12.0	16.4
M92-185003	17.8	19.0	15.5	14.9	16.6
M92-285024	17.3	17.4	13.5	14.2	17.4
M93-142040	19.5	18.1	13.7	15.2	17.8
M92-105082	16.6	15.7	13.4	13.5	17.2
ND95-931	17.5	19.3	16.5	14.2	17.1
ND95-6634	13.7	14.4	13.2	10.6	14.1
ND96-1593	19.3	18.8	17.3	16.4	18.5
ND96-8929	18.4	17.8	14.7	14.9	17.0
OAC 98-02	20.4	19.1	14.4	15.2	18.6
OAC 98-04	21.1	21.9	17.3	16.3	19.5
ORC 9801	19.8	18.4	15.1	14.1	17.8
ORC 9802	15.8	14.0	11.5	11.5	16.1
ORC 9803	14.8	18.5	14.4	15.6	18.8
SD96-33	14.9	13.8	11.5	13.4	13.8
SD96-702	17.0	18.3	14.3	13.4	16.1
SD96-1659	21.4	20.6	15.8	17.2	19.8
SD96-1699	21.1	19.8	17.2	12.8	20.2
SD96-1712	19.1	18.6	14.1	14.9	19.0
SD96-2156	19.6	17.1	14.3	15.0	19.0

UNIFORM TEST 0, 2000

PROTEIN (%)

Strain	Mean 5 Tests	Morris MN	Rosemount MN	Ottawa Ont.	St.-Bruno-de-Montarville Que.	Brookings SD
Lambert (0)	41.4	40.1	41.1	43.2	42.5	40.0
Parker (I)	41.2	41.5	42.0	41.7	41.3	39.7
Surge (0)	42.7	42.1	42.4	43.5	43.9	41.8
Traill (E)	42.6	42.4	42.7	43.8	43.3	40.8
MN0902CN (SCN)	43.1	42.9	43.3	44.1	44.3	41.2
M90-135046	43.2	43.3	43.5	44.9	45.0	39.2
M90-217007	40.6	40.6	40.5	41.2	42.1	38.7
M91-131051	41.1	40.4	41.6	42.1	41.8	39.4
M92-160047	39.9	39.2	40.7	40.8	39.3	39.5
M92-179009	40.5	39.0	40.5	40.4	40.5	42.0
M92-179024	40.6	40.4	41.9	41.4	41.4	38.0
M92-185003	41.4	41.0	41.7	41.5	42.2	40.8
M92-285024	40.5	41.4	40.3	41.0	41.0	38.7
M93-142040	43.7	43.0	43.4	44.9	44.3	42.9
M92-105082	41.8	42.1	42.3	42.9	43.1	38.9
ND95-931	40.7	40.9	39.8	41.6	41.3	40.0
ND95-6634	41.4	40.0	41.8	42.2	41.7	41.3
ND96-1593	41.3	40.8	42.3	41.1	40.7	41.8
ND96-8929	41.5	39.8	42.6	41.2	41.8	42.0
OAC 98-02	40.7	41.3	41.1	41.8	41.1	38.1
OAC 98-04	40.8	39.9	41.3	41.4	41.6	39.9
ORC 9801	39.2	39.3	39.0	40.0	38.8	39.2
ORC 9802	40.7	39.5	41.8	41.9	40.4	40.0
ORC 9803	42.0	40.7	42.2	42.8	42.2	41.8
SD96-33	42.8	41.7	42.8	44.3	43.5	41.7
SD96-702	40.1	39.1	39.7	41.0	40.7	39.9
SD96-1659	42.0	40.8	42.7	43.3	43.2	39.8
SD96-1699	41.9	40.4	41.9	42.6	43.7	41.1
SD96-1712	43.4	43.5	43.7	44.6	43.8	41.4
SD96-2156	41.2	40.9	40.9	43.4	43.0	38.0

UNIFORM TEST 0, 2000

OIL (%)

Strain	Mean 5 Tests	Morris MN	Rosemount MN	Ottawa Ont.	St.-Bruno-de-Montarville Que.	Brookings SD
Lambert (0)	20.9	20.9	20.7	21.2	20.8	20.7
Parker (I)	19.9	19.5	19.8	20.0	20.1	20.2
Surge (0)	19.8	19.7	19.8	20.1	19.7	20.0
Traill (E)	19.3	19.0	19.2	19.6	19.4	19.3
MN0902CN (SCN)	18.9	18.2	18.8	19.3	18.9	19.3
M90-135046	19.2	18.9	19.0	19.6	19.0	19.7
M90-217007	20.5	19.6	20.3	21.2	20.4	21.1
M91-131051	20.2	20.0	19.6	20.3	20.4	20.8
M92-160047	20.4	19.8	20.2	20.6	20.8	20.5
M92-179009	20.4	20.4	20.4	21.0	20.7	19.5
M92-179024	19.9	19.4	19.4	20.1	19.7	21.1
M92-185003	20.4	19.9	20.1	21.2	20.6	20.3
M92-285024	19.6	19.1	19.3	20.0	19.9	19.8
M93-142040	19.1	18.8	19.1	19.4	19.5	18.8
M92-105082	19.7	19.3	19.2	19.8	19.7	20.3
ND95-931	21.2	20.7	21.5	21.2	21.0	21.4
ND95-6634	19.3	19.2	18.8	19.6	19.7	19.2
ND96-1593	20.0	19.6	20.0	20.5	19.9	20.0
ND96-8929	20.3	20.9	20.1	20.7	20.0	19.9
OAC 98-02	19.8	19.1	19.7	19.8	20.1	20.5
OAC 98-04	19.8	19.5	19.4	20.3	19.8	20.2
ORC 9801	21.0	20.2	21.2	21.3	21.8	20.6
ORC 9802	20.0	19.5	19.8	20.4	20.8	19.5
ORC 9803	19.4	18.8	19.0	20.1	20.1	18.8
SD96-33	19.1	18.8	18.9	19.3	19.2	19.1
SD96-702	20.6	20.1	20.7	20.7	20.8	20.6
SD96-1659	19.5	19.1	18.9	19.7	19.7	20.1
SD96-1699	20.0	19.7	19.7	20.7	20.1	19.7
SD96-1712	19.1	18.6	18.8	19.1	19.3	19.5
SD96-2156	19.7	19.3	19.9	19.6	19.7	20.3

Preliminary Test 0, 2000

	Strain	Parentage	Generation Composited	Unique Traits
1.	Lambert (0)	M75-274 x M76-151	F5	Rps1
2.	Parker (I)	A79-136012 x Dawson	F5	Rps1
3.	Surge	A86-204022 x Kato	F5	
4.	Traill (E)	M82-996 x Sigco KG20	F5	
5.	M94-133132	Harmony x Agassiz	F5	Rps1
6.	M94-139132	Harmony x Ozzie	F5	Rps1
7.	M94-147018	M92-761 x Agassiz	F5	Rps1
8.	M94-147035	M92-761 x Agassiz	F5	Rps1
9.	M94-161141	IA1006 x Agassiz	F5	Rps1
10.	M94-175039	M89-1815 x ORC 9002	F5	Rps1
11.	M94-175050	M89-1815 x ORC 9002	F5	Rps1c
12.	M94-176021	Lambert x OT92-2	F5	Rps1
13.	M94-176109	Lambert x OT92-2	F5	Rps1
14.	M94-190023	M92-674 x Bert	F5	Rps1
15.	M94-190041	M92-674 x Bert	F5	Rps1
16.	M94-190084	M92-674 x Bert	F5	Rps1
17.	M94-275024	M89-1006 x Kato	F5	Rps1c
18.	M95-101005	Agassiz x OT92-8	F4	Rps1
19.	M95-114006	Parker x ORC 9002	F4	Rps1
20.	M95-123116	Parker x M92-1631	F4	SCN
21.	M95-123023	Parker x M92-1631	F4	SCN
22.	ND95-1564	Parker x Pioneer 9061	F5	
23.	ND97-763	Council x Pioneer 9007	F5	
24.	ND97-1037	Glacier x Council	F5	Rps6
25.	ND97-1203	Glacier x Lambert	F5	Rps6
26.	ND97-1215	Glacier x Lambert	F5	Rps6
27.	ND97-1218	Glacier x Lambert	F5	Rps6
28.	ND97-1223	Glacier x Lambert	F5	Rps6
29.	ND97-1676	Glacier x Lambert	F5	Rps6
30.	ND97-2086	Agassiz x Glacier	F5	Rps6
31.	OAC98-33	C9304 x M87-170	F5	
32.	OAC99-17	M88-207 x OAC 92-08	F5	
33.	OAC99-36	OAC Bayfield x A Marcus BC	F5	
34.	ORC 9901	Northrup King S24-92 x RCAT Bobcat	F5	
35.	ORC 9902	Northrup King S24-92 x OAC Bayfield	F5	
36.	ORC 9903	Blackjack 21 x RCAT Bobcat	F5	
37.	OT99-1	{[(Maple Arrow x J80989-01833) x Hong Feng] x AC Harmony}	F5	
38.	OT99-2	[(AC Bravor x RAGT86L579) x AC Harmony]	F5	
39.	OT99-4	{[(Maple Arrow x PI 361.088B) x 3 Maple Glen] x AC Harmony}	F5	
40.	OT99-5	{[(Maple Arrow x PI 361.088B) x 3 Maple Glen] x AC Harmony}	F5	
41.	SD97-652	Hendricks x U91-2519	F5	
42.	SD97-749	Agassiz x Kenwood	F5	
43.	SD97-776	Hendricks x SL91-1252N	F5	
44.	SD97-1313	Lambert x OT91-3	F5	
45.	SD97-2135	OT91-3 x Hendricks	F5	
46.	SD97-2154	SL91-1736M x SL91-1574M	F5	
47.	SD97-2178	SL91-1736M x SL91-1574M	F5	
48.	SD97-2307	SL91-2856N x Bert	F5	
49.	SD97-2585	SL91-1628M x SL91-1574M	F5	
50.	SD97-2915	Leslie x SL93-3343	F5	

PRELIMINARY TEST 0, 2000

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Rosemount	Shattering Score Manhattan	PR Lafayette Race 7
Lambert (0)	PGBSYBflep	4.5	2.0	S
Parker (I)	WGBDYBrIEp	4.5	2.0	S
Surge	PGBDYIblep	4.3	2.0	R
Traill (E)	PTBDYYIEp	3.5	2.0	R
M94-133132	WGBDYBflEp	-	4.0	S
M94-139132	WGBDYYIEp	4.5	2.0	R
M94-147018	PGBDYBflEp	4.7	2.0	R
M94-147035	WGBDYYIEp	4.3	3.0	R
M94-161141	WGBDYBflEp	4.3	2.0	H
M94-175039	PGBDYYIep	3.8	2.0	R
M94-175050	PT+GBDYYIH	3.7	2.0	S
M94-176021	PGBDYBflep	4.2	3.0	H
M94-176109	PTBDYBrIep	4.7	3.0	S
M94-190023	PGBDYBrIH	4.3	2.0	S
M94-190041	PGBDYBrIEp	4.5	2.0	S
M94-190084	PGBDYBrIEp	4.5	2.0	S
M94-275024	PGBDYIblep	4.3	2.0	R
M95-101005	PGBDYIblep	4.3	2.0	R
M95-114006	P+WGBDYBflEp	4.5	3.0	R
M95-123116	PTBDYBrIEp	4.5	2.0	R
M95-123023	P+WT+GBSYHIEp	4.7	3.0	S
ND95-1564	P+WGBDYBflEp	4.5	2.0	H
ND97-763	PGBDYYIEp	4.3	1.0	S
ND97-1037	PT+GBDYYIEp	4.3	2.0	S
ND97-1203	PGBDYYIep	4.7	3.0	S
ND97-1215	PT+GBSYYIep	4.2	3.0	S
ND97-1218	PTBDYBrIH	4.7	3.0	R
ND97-1223	PGBDYBflep	4.5	3.0	H
ND97-1676	PT+GBDYYIEp	4.2	4.0	S
ND97-2086	PGBDYBflEp	4.2	3.0	S
OAC98-33	PTBDYYIEp	4.3	3.0	S
OAC99-17	PTBDYYIEp	4.5	2.0	S
OAC99-36	WTBDYBrIEp	4.3	2.0	S
ORC 9901	PTBDYYIEp	4.5	3.0	S
ORC 9902	PTBDYBllEp	4.3	3.0	S
ORC 9903	PTBDYYIEp	4.2	2.0	S
OT99-1	PTBDYGrIEp	4.5	3.0	S
OT99-2	WTBSYBrIEp	4.5	1.0	H
OT99-4	PTBSYYIEp	4.5	2.0	S
OT99-5	WTBDYBrIEp	4.3	2.0	S
SD97-652	PGBDYYIep	4.5	2.0	S
SD97-749	PGBDYIbIEp	4.3	2.0	S
SD97-776	PGBDYBflep	4.5	2.0	S
SD97-1313	WGBDYGrIEp	4.2	3.0	R
SD97-2135	PGBDYBflep	4.5	2.0	S
SD97-2154	PTBDYBrIEp	4.3	2.0	R
SD97-2178	PTBSYBllep	4.5	1.0	H
SD97-2307	WGBDYBflEp	4.2	2.0	R
SD97-2585	WTBDYBllep	4.2	2.0	S
SD97-2915	PTBDYBrIEp	4.7	2.0	S

PRELIMINARY TEST 0, 2000

REGIONAL SUMMARY

No. of Tests Strain	Yield 7 bu/a	Rank 7 No.	Maturity 8 Date	Lodging 8 Score	Plant Height 8 In.	Seed Size 8 g/100	Composition Protein 4 %	 Oil 4 %
Lambert (0)	44.5	11	9/22	1.2	30	16.3	41.4	20.2
Parker (I)	46.8	3	6.0	1.8	35	16.6	41.4	19.2
Surge	46.4	4	1.8	1.2	29	18.6	42.4	19.8
Traill (E)	39.7	46	-6.9	1.3	27	17.1	42.7	18.9
M94-133132	42.5	28	-0.3	1.4	32	12.8	42.1	19.5
M94-139132	44.3	12	0.9	1.3	31	13.5	40.0	20.1
M94-147018	39.0	48	-7.6	1.2	32	14.3	40.9	19.8
M94-147035	39.6	47	-5.6	1.1	31	14.7	40.6	19.8
M94-161141	41.3	38	-2.1	1.0	30	15.5	40.4	19.9
M94-175039	42.4	30	0.0	1.3	33	15.6	40.0	19.8
M94-175050	43.2	20	-1.9	1.1	32	15.7	41.6	19.4
M94-176021	45.3	7	1.1	1.3	35	16.0	41.3	19.7
M94-176109	44.2	13	-1.9	1.3	28	14.6	41.2	19.4
M94-190023	40.8	44	-5.0	1.1	33	14.4	42.0	19.4
M94-190041	43.1	23	0.4	1.4	36	13.8	41.2	19.1
M94-190084	43.1	23	-2.6	1.4	35	13.1	40.1	19.3
M94-275024	41.7	34	-5.8	1.1	29	16.8	43.0	18.8
M95-101005	40.5	45	-4.4	1.2	28	16.7	42.6	19.2
M95-114006	42.6	27	-1.3	1.4	32	14.9	41.6	19.2
M95-123116	44.9	8	0.3	1.3	32	15.1	41.3	19.4
M95-123023	43.8	15	-0.5	1.4	32	17.1	42.2	19.0
ND95-1564	47.8	1	2.0	1.6	34	15.9	40.8	19.6
ND97-763	42.2	32	-5.8	1.1	29	15.4	39.9	20.5
ND97-1037	43.2	20	-2.5	1.1	28	16.6	40.4	19.5
ND97-1203	44.7	10	0.6	1.3	29	17.1	42.4	19.0
ND97-1215	41.7	34	-0.6	1.7	31	15.9	42.3	18.6
ND97-1218	41.2	41	-5.4	1.0	27	16.3	42.7	18.8
ND97-1223	43.5	17	0.4	1.3	30	17.1	41.0	20.6
ND97-1676	38.7	49	-4.8	1.3	27	16.5	41.2	19.6
ND97-2086	38.2	50	-3.3	1.4	33	17.3	42.6	19.1
OAC98-33	41.0	43	-3.1	1.1	27	18.4	40.0	19.4
OAC99-17	44.9	8	0.3	1.3	33	19.5	40.6	20.0
OAC99-36	46.4	4	2.4	1.3	32	17.3	40.3	19.8
ORC 9901	43.4	18	3.0	1.3	33	17.1	39.7	20.4
ORC 9902	42.7	26	4.8	1.1	28	15.7	42.1	18.7
ORC 9903	42.3	31	5.9	1.2	36	16.9	40.8	19.5
OT99-1	43.3	19	-3.3	1.3	30	20.6	39.9	20.0
OT99-2	41.3	38	-0.5	1.1	28	15.4	40.7	20.1
OT99-4	41.4	37	-5.3	1.2	31	15.8	41.4	20.5
OT99-5	43.2	20	-2.1	1.3	29	16.4	41.6	19.9
SD97-652	42.1	33	1.4	1.1	30	15.1	41.9	19.5
SD97-749	47.0	2	2.6	1.5	32	15.4	40.1	19.6
SD97-776	41.3	38	-0.5	1.1	29	16.2	40.8	20.0
SD97-1313	42.5	28	2.5	1.2	35	15.3	41.7	19.3
SD97-2135	41.7	34	0.3	1.1	30	15.7	40.2	20.1
SD97-2154	43.8	15	2.9	1.3	29	19.9	40.7	19.4
SD97-2178	41.1	42	4.3	1.6	28	17.6	41.1	19.5
SD97-2307	43.1	23	1.1	1.2	31	14.4	39.9	19.5
SD97-2585	45.6	6	1.5	1.1	27	19.2	41.6	19.2
SD97-2915	44.1	14	4.0	1.3	31	18.0	42.2	19.5

126.9 Days After Planting

PRELIMINARY TEST 0, 2000

YIELD (bu/a)

Strain	Mean 7 Tests	Morris MN	Rosemount MN	Cassel-* ton ND	Ottawa Ont.	Wood-stock Ont.	St. Bruno de Montarville Que.	Brookings SD	Watertown SD
Lambert (0)	44.5	52.8	36.8	43.5	67.4	54.7	31.8	38.1	29.8
Parker (I)	46.8	56.4	45.0	42.3	66.4	54.7	33.3	34.7	37.4
Surge	46.4	57.3	46.4	34.9	65.2	51.9	35.5	37.6	31.1
Traill (E)	39.7	42.8	29.8	30.7	59.1	52.0	28.4	31.2	34.7
M94-133132	42.5	51.7	32.1	44.4	61.1	54.1	33.9	37.0	27.4
M94-139132	44.3	53.4	39.7	35.7	62.2	48.9	33.1	34.5	38.6
M94-147018	39.0	46.8	34.7	37.1	57.5	46.3	32.0	27.2	28.6
M94-147035	39.6	48.5	36.1	33.1	54.3	43.7	33.7	26.3	34.8
M94-161141	41.3	54.3	29.5	43.4	60.9	53.3	35.1	26.1	29.9
M94-175039	42.4	48.3	37.1	35.8	64.7	49.3	34.3	31.9	31.1
M94-175050	43.2	50.8	40.0	35.7	63.1	46.5	32.9	37.0	32.3
M94-176021	45.3	55.2	40.3	37.1	67.7	51.8	35.2	35.7	31.1
M94-176109	44.2	49.6	40.2	20.3	64.7	52.7	36.1	31.9	34.6
M94-190023	40.8	51.4	41.5	24.7	57.4	46.2	32.0	29.9	27.4
M94-190041	43.1	52.1	35.9	21.6	65.7	53.6	33.7	34.7	25.8
M94-190084	43.1	53.7	35.3	38.7	62.8	48.6	34.3	35.8	31.0
M94-275024	41.7	51.5	38.9	30.7	60.5	46.8	32.7	30.0	31.3
M95-101005	40.5	46.1	35.3	32.6	62.7	47.1	30.0	32.6	29.9
M95-114006	42.6	51.9	34.3	46.2	61.5	47.2	34.7	38.6	29.7
M95-123116	44.9	48.1	43.8	43.0	60.0	53.1	32.4	35.9	41.2
M95-123023	43.8	50.9	41.0	33.6	65.3	52.3	34.5	28.8	33.9
ND95-1564	47.8	52.0	43.1	44.0	67.0	60.6	35.1	43.6	33.6
ND97-763	42.2	48.5	39.3	36.7	64.3	47.1	32.2	31.4	32.4
ND97-1037	43.2	51.3	41.2	32.1	60.3	49.9	30.4	34.7	34.7
ND97-1203	44.7	50.4	42.5	36.1	66.6	50.6	33.5	36.0	33.6
ND97-1215	41.7	42.2	37.2	34.0	61.7	52.5	36.9	32.1	29.6
ND97-1218	41.2	47.8	36.9	18.8	64.0	48.4	31.9	28.3	31.1
ND97-1223	43.5	48.2	39.1	34.2	63.6	46.5	31.7	33.3	42.3
ND97-1676	38.7	43.1	32.3	31.8	58.5	46.7	26.7	30.0	33.5
ND97-2086	38.2	41.7	35.4	29.3	57.1	44.1	32.0	28.4	28.7
OAC98-33	41.0	47.0	44.0	28.4	59.4	42.2	31.6	29.2	33.5
OAC99-17	44.9	47.9	39.6	30.9	67.3	53.1	36.4	40.4	29.7
OAC99-36	46.4	46.1	41.9	33.0	68.5	55.0	37.0	40.0	36.1
ORC 9901	43.4	53.0	36.5	34.5	67.2	49.4	32.8	34.7	30.2
ORC 9902	42.7	56.3	42.0	45.7	57.7	51.8	27.7	36.1	27.5
ORC 9903	42.3	46.4	37.9	40.0	64.2	52.7	31.6	35.0	28.5
OT99-1	43.3	53.1	33.5	39.7	62.5	53.1	36.0	31.4	33.3
OT99-2	41.3	49.2	31.5	35.8	63.1	50.5	31.4	32.4	31.3
OT99-4	41.4	48.7	36.1	40.2	58.2	46.9	33.2	35.8	31.0
OT99-5	43.2	52.2	33.4	34.6	63.8	54.6	31.2	33.5	33.7
SD97-652	42.1	47.3	43.2	32.1	58.7	45.4	30.5	36.1	33.5
SD97-749	47.0	54.0	45.8	41.5	67.5	58.3	35.0	33.7	35.0
SD97-776	41.3	47.4	40.0	26.0	51.1	44.5	35.0	36.1	34.9
SD97-1313	42.5	48.5	40.6	44.8	59.2	49.5	33.0	38.5	28.5
SD97-2135	41.7	47.7	40.9	25.0	57.5	52.2	29.9	33.8	29.7
SD97-2154	43.8	49.1	42.6	42.4	64.8	54.0	32.0	28.2	36.1
SD97-2178	41.1	46.4	41.5	40.4	59.2	49.6	34.5	26.7	29.7
SD97-2307	43.1	47.2	36.6	34.7	63.9	50.1	32.9	36.2	34.8
SD97-2585	45.6	53.1	40.9	41.3	64.0	58.1	32.2	34.8	36.0
SD97-2915	44.1	50.3	44.8	34.7	58.7	52.9	30.0	37.1	34.7
C.V. (%)		9.2	11.3	30.0	6.5	5.7	5.8	11.5	13.9
L.S.D. (5%)		8.7	7.9	17.0	4.7	3.9	3.1	7.8	9.0
Row Sp. (In.)		10	10	30	16	14	7	30	30
Rows/Plot		4	4	4	4	4	5	4	4
Reps		2	2	3	4	3	3	2	2

* Data not included in the mean.

PRELIMINARY TEST 0, 2000

YIELD RANK

Strain	Yield Rank	Morris MN	Rosemount MN	Cassel-ton ND	Ottawa Ont.	Wood-stock Ont.	St. Bruno de Montarville Que.	Brookings SD	Watertown SD
Lambert (0)	11	12	33	6	4	5	37	6	37
Parker (I)	3	2	3	10	9	6	21	22	4
Surge	4	1	1	26	12	22	6	7	29
Traill (E)	46	48	49	41	39	21	48	38	12
M94-133132	28	17	47	4	31	8	17	9	48
M94-139132	12	8	24	24	28	33	23	26	3
M94-147018	48	42	42	18	46	44	34	47	44
M94-147035	47	29	36	34	49	49	18	49	10
M94-161141	38	5	50	7	32	11	9	50	35
M94-175039	30	32	31	22	14	32	15	34	29
M94-175050	20	22	22	24	24	43	26	9	25
M94-176021	7	4	20	18	2	24	7	19	29
M94-176109	13	25	21	49	15	16	4	34	15
M94-190023	44	19	13	47	47	45	35	41	48
M94-190041	23	14	38	48	10	10	19	22	50
M94-190084	23	7	40	17	25	34	16	17	32
M94-275024	34	18	28	41	33	40	28	39	26
M95-101005	45	45	40	36	26	38	46	31	35
M95-114006	27	16	43	1	30	36	12	4	38
M95-123116	8	34	6	8	35	13	29	16	2
M95-123023	15	21	16	33	11	19	14	43	16
ND95-1564	1	15	8	5	7	1	8	1	18
ND97-763	32	29	26	20	16	37	31	36	24
ND97-1037	20	20	15	37	34	28	44	22	12
ND97-1203	10	23	10	21	8	25	20	15	18
ND97-1215	34	49	30	32	29	18	2	33	42
ND97-1218	41	36	32	50	18	35	36	45	28
ND97-1223	17	33	27	31	22	42	38	30	1
ND97-1676	49	47	46	39	42	41	50	39	20
ND97-2086	50	50	39	43	48	48	33	44	43
OAC98-33	43	41	5	44	36	50	40	42	20
OAC99-17	8	35	25	40	5	12	3	2	38
OAC99-36	4	45	12	35	1	4	1	3	5
ORC 9901	18	11	35	30	6	31	27	22	34
ORC 9902	26	3	11	2	44	23	49	13	47
ORC 9903	31	43	29	15	17	17	39	20	45
OT99-1	19	9	44	16	27	14	5	36	23
OT99-2	38	26	48	22	23	26	41	32	26
OT99-4	37	28	36	14	43	39	22	17	32
OT99-5	20	13	45	29	21	7	42	29	17
SD97-652	33	39	7	37	40	46	43	12	20
SD97-749	2	6	2	11	3	2	10	28	8
SD97-776	38	38	22	45	50	47	11	13	9
SD97-1313	28	29	19	3	37	30	24	5	45
SD97-2135	34	37	17	46	45	20	47	27	38
SD97-2154	15	27	9	9	13	9	32	46	5
SD97-2178	42	43	13	13	38	29	13	48	38
SD97-2307	23	40	34	27	20	27	25	11	11
SD97-2585	6	9	17	12	19	3	30	21	7
SD97-2915	14	24	4	27	41	15	45	8	12

PRELIMINARY TEST 0, 2000

MATURITY (date)

Strain	Mean 8 Tests	Morris MN	Rosemount MN	Cassel-ton ND	Ottawa Ont.	Wood-stock Ont.	St. Bruno de Montarville Que.	Brookings SD	Watertown SD
Lambert (0)	09/22	09/17	09/10	09/29	10/02	09/30	10/13	09/08	09/07
Parker (I)	6.0	3	6	6	6	6	4	10	7
Surge	1.8	1	1	0	1	2	3	2	4
Traill (E)	-6.9	-4	-7	-8	-8	-7	-8	-7	-6
M94-133132	-0.3	0	-2	-5	1	0	-1	0	5
M94-139132	0.9	0	-2	1	0	1	1	2	4
M94-147018	-7.6	-3	-7	-15	-8	-9	-6	-7	-6
M94-147035	-5.6	-3	-3	-10	-6	-6	-5	-10	-2
M94-161141	-2.1	1	-1	-4	-1	-4	0	-8	0
M94-175039	0.0	1	-1	-2	2	-2	0	1	1
M94-175050	-1.9	1	-3	-6	0	-1	1	-4	-3
M94-176021	1.1	1	-2	-2	2	2	2	1	5
M94-176109	-1.9	1	-2	-7	2	0	-3	-5	-1
M94-190023	-5.0	0	-2	-13	-6	-8	-5	-2	-4
M94-190041	0.4	0	-2	-4	3	0	0	2	4
M94-190084	-2.6	0	0	-7	-3	-8	-3	-1	1
M94-275024	-5.8	0	-5	-12	-6	-8	-4	-7	-4
M95-101005	-4.4	-3	-2	-12	-6	-6	-4	-3	1
M95-114006	-1.3	-3	-4	0	1	0	0	-5	1
M95-123116	0.3	0	1	-1	1	1	1	-4	3
M95-123023	-0.5	2	1	-3	1	-3	0	-3	1
ND95-1564	2.0	1	1	4	2	2	1	1	4
ND97-763	-5.8	-1	-6	-10	-8	-4	-6	-7	-4
ND97-1037	-2.5	0	0	-10	-2	-2	-2	-3	-1
ND97-1203	0.6	0	1	-1	1	2	3	-4	3
ND97-1215	-0.6	0	-3	0	1	0	0	-1	-2
ND97-1218	-5.4	-1	-6	-15	-4	-4	-2	-6	-5
ND97-1223	0.4	1	-2	-1	1	1	2	-4	5
ND97-1676	-4.8	-1	-9	-8	-4	-3	-6	-3	-4
ND97-2086	-3.3	-1	-1	-10	-2	-6	-2	-6	2
OAC98-33	-3.1	1	0	-7	-6	-6	-1	-6	0
OAC99-17	0.3	1	2	-4	-1	1	-1	1	3
OAC99-36	2.4	1	2	6	2	2	1	2	3
ORC 9901	3.0	2	4	2	3	2	4	2	5
ORC 9902	4.8	4	4	8	5	5	3	4	5
ORC 9903	5.9	3	4	9	9	6	3	4	9
OT99-1	-3.3	0	-7	-9	-3	-3	1	0	-5
OT99-2	-0.5	0	1	-3	0	-4	-1	2	1
OT99-4	-5.3	0	-5	-9	-8	-8	-6	-3	-3
OT99-5	-2.1	0	-4	-6	0	-3	-3	-2	1
SD97-652	1.4	0	0	1	2	3	-1	1	5
SD97-749	2.6	0	2	4	3	2	1	2	7
SD97-776	-0.5	-2	0	-11	2	2	-1	2	4
SD97-1313	2.5	2	-2	3	3	5	1	2	6
SD97-2135	0.3	0	0	-2	2	1	4	-5	2
SD97-2154	2.9	1	0	3	5	4	3	1	6
SD97-2178	4.3	2	3	7	5	5	5	2	5
SD97-2307	1.1	0	1	2	3	1	-1	1	2
SD97-2585	1.5	0	1	-1	3	2	2	2	3
SD97-2915	4.0	1	3	6	3	6	5	2	6
Date Planted	05/18	05/23	05/03	05/14	05/21	06/04	05/29	05/05	05/15
Days to Mature	127	117	130	138	134	118	137	126	115

PRELIMINARY TEST 0, 2000

LODGING (score)

Strain	Mean 8 Tests	Morris MN	Rosemount MN	Cassel-ton ND	Ottawa Ont.	Wood-stock Ont.	St. Bruno de Montarville Que.	Brookings SD	Watertown SD
Lambert (0)	1.2	1.0	1.0	1.0	1.3	1.0	1.0	2.0	1.0
Parker (I)	1.8	1.0	1.0	1.0	3.5	1.7	2.0	2.0	2.0
Surge	1.2	1.0	1.0	1.0	1.3	1.0	1.0	2.0	1.0
Traill (E)	1.3	1.5	1.0	1.0	1.0	1.0	1.0	2.0	2.0
M94-133132	1.4	1.0	1.0	1.0	2.0	1.0	1.0	2.0	2.0
M94-139132	1.3	1.0	1.0	1.0	1.1	1.0	1.0	2.0	2.0
M94-147018	1.2	1.0	1.0	1.0	1.2	1.0	1.0	2.0	1.0
M94-147035	1.1	1.0	1.0	1.0	0.9	1.0	1.0	1.0	2.0
M94-161141	1.0	1.0	1.0	1.0	1.2	1.0	1.0	1.0	1.0
M94-175039	1.3	1.0	1.0	1.0	1.2	1.0	1.0	2.0	2.0
M94-175050	1.1	1.0	1.0	1.0	0.9	1.0	1.0	2.0	1.0
M94-176021	1.3	1.5	1.0	1.0	1.9	1.2	1.0	2.0	1.0
M94-176109	1.3	1.0	1.0	1.0	1.2	1.2	1.0	2.0	2.0
M94-190023	1.1	1.0	1.0	1.0	1.2	1.2	1.0	1.0	1.0
M94-190041	1.4	1.5	1.0	1.0	2.1	1.0	1.0	2.0	2.0
M94-190084	1.4	1.0	1.0	1.0	1.7	1.0	1.3	2.0	2.0
M94-275024	1.1	1.0	1.0	1.0	1.1	1.0	1.0	2.0	1.0
M95-101005	1.2	1.5	1.0	1.0	1.0	1.0	1.0	2.0	1.0
M95-114006	1.4	1.0	1.0	1.0	1.9	1.3	1.0	2.0	2.0
M95-123116	1.3	1.0	1.0	1.0	1.5	1.0	1.0	2.0	2.0
M95-123023	1.4	1.0	1.0	1.0	2.0	1.5	1.0	2.0	2.0
ND95-1564	1.6	1.0	1.0	1.0	3.1	1.7	1.0	2.0	2.0
ND97-763	1.1	1.0	1.0	1.0	1.1	1.0	1.0	2.0	1.0
ND97-1037	1.1	1.0	1.0	1.0	0.8	1.0	1.0	1.0	2.0
ND97-1203	1.3	1.0	1.0	1.0	1.3	1.2	1.0	2.0	2.0
ND97-1215	1.7	2.5	1.0	1.0	2.3	1.5	1.0	2.0	2.0
ND97-1218	1.0	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.0
ND97-1223	1.3	1.5	1.0	1.0	1.1	1.0	1.0	2.0	2.0
ND97-1676	1.3	1.0	1.0	1.0	1.1	1.2	1.0	2.0	2.0
ND97-2086	1.4	1.5	1.0	1.0	1.4	1.3	1.0	2.0	2.0
OAC98-33	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
OAC99-17	1.3	1.0	1.0	1.0	1.1	1.0	1.0	2.0	2.0
OAC99-36	1.3	1.0	1.0	1.0	1.5	1.2	1.0	2.0	2.0
ORC 9901	1.3	1.0	1.0	1.0	1.4	1.0	1.0	2.0	2.0
ORC 9902	1.1	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0
ORC 9903	1.2	1.0	1.0	1.0	1.7	1.2	1.0	2.0	1.0
OT99-1	1.3	1.0	1.0	1.0	1.0	1.2	1.0	2.0	2.0
OT99-2	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
OT99-4	1.2	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0
OT99-5	1.3	1.0	1.0	1.0	1.2	1.0	1.0	2.0	2.0
SD97-652	1.1	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0
SD97-749	1.5	1.5	1.0	1.0	2.1	1.3	1.0	1.0	3.0
SD97-776	1.1	1.0	1.0	1.0	0.9	1.0	1.0	2.0	1.0
SD97-1313	1.2	1.0	1.0	1.0	1.5	1.0	1.0	2.0	1.0
SD97-2135	1.1	1.0	1.0	1.0	1.1	1.0	1.0	1.0	2.0
SD97-2154	1.3	1.0	1.0	1.0	1.4	1.8	1.0	2.0	1.0
SD97-2178	1.6	2.0	1.0	1.0	2.6	2.5	1.0	2.0	1.0
SD97-2307	1.2	1.0	1.0	1.0	1.4	1.0	1.0	2.0	1.0
SD97-2585	1.1	1.0	1.0	1.0	1.1	1.0	1.0	2.0	1.0
SD97-2915	1.3	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0

PRELIMINARY TEST 0, 2000

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Morris MN	Rosemount MN	Cassel-ton ND	Ottawa Ont.	Wood-stock Ont.	St. Bruno de Montarville Que.	Brookings SD	Watertown SD
Lambert (0)	30	38	37	28	25	30	25	23	32
Parker (I)	35	47	49	25	32	27	36	27	40
Surge	29	39	42	21	24	28	25	22	28
Traill (E)	27	36	37	19	21	29	23	20	29
M94-133132	32	41	42	28	27	31	28	24	32
M94-139132	31	42	40	25	26	29	29	21	35
M94-147018	32	44	45	27	25	31	27	24	31
M94-147035	31	42	47	25	24	30	25	19	34
M94-161141	30	38	42	23	26	30	29	19	31
M94-175039	33	43	40	29	28	32	29	25	37
M94-175050	32	53	38	27	25	32	26	27	30
M94-176021	35	63	42	33	27	32	27	21	32
M94-176109	28	31	37	25	23	27	26	22	32
M94-190023	33	59	45	19	27	30	27	26	28
M94-190041	36	51	44	24	30	34	36	26	40
M94-190084	35	45	52	30	28	31	31	27	38
M94-275024	29	31	43	24	25	32	26	21	30
M95-101005	28	34	37	24	25	31	27	25	24
M95-114006	32	56	36	26	26	29	29	25	30
M95-123116	32	51	40	26	26	30	27	23	31
M95-123023	32	26	53	24	28	35	31	23	36
ND95-1564	34	40	45	30	28	35	29	28	34
ND97-763	29	47	34	24	25	27	24	21	29
ND97-1037	28	38	35	20	25	30	24	24	32
ND97-1203	29	38	37	23	24	29	26	21	34
ND97-1215	31	43	41	23	27	35	29	21	32
ND97-1218	27	37	32	22	25	27	24	20	29
ND97-1223	30	41	39	24	22	32	29	24	30
ND97-1676	27	36	35	19	22	28	25	21	34
ND97-2086	33	43	42	30	27	33	32	24	36
OAC98-33	27	35	34	20	20	28	22	21	34
OAC99-17	33	47	45	19	26	33	29	31	35
OAC99-36	32	40	40	23	25	40	28	25	34
ORC 9901	33	43	39	30	27	31	32	31	34
ORC 9902	28	34	32	21	26	30	30	24	25
ORC 9903	36	43	43	32	30	37	34	28	37
OT99-1	30	40	39	23	24	32	25	23	32
OT99-2	28	37	36	24	22	26	30	22	30
OT99-4	31	42	40	26	24	30	28	26	31
OT99-5	29	37	36	24	24	30	27	27	30
SD97-652	30	38	39	25	24	30	30	25	29
SD97-749	32	42	40	19	30	34	32	26	37
SD97-776	29	38	40	24	22	28	26	20	30
SD97-1313	35	44	47	31	27	34	33	29	34
SD97-2135	30	38	36	24	23	32	31	22	34
SD97-2154	29	37	35	26	25	32	25	19	29
SD97-2178	28	38	38	20	27	29	28	19	29
SD97-2307	31	43	43	18	26	31	31	22	37
SD97-2585	27	35	34	21	24	30	24	19	27
SD97-2915	31	38	35	24	25	33	31	26	34

PRELIMINARY TEST 0, 2000

SEED SIZE (g/100)

Strain	Mean 8 Tests	Morris MN	Rosemount MN	Cassel-ton ND	Ottawa Ont.	Wood-stock Ont.	St. Bruno de Montarville Que.	Brookings SD	Watertown SD
Lambert (0)	16.3	17.2	15.9	17.1	17.5	16.8	17.7	15.2	13.3
Parker (I)	16.6	18.5	17.3	17.7	17.3	17.4	15.6	14.5	14.6
Surge	18.6	17.0	19.9	18.9	21.6	19.7	20.0	16.5	15.4
Traill (E)	17.1	18.0	16.5	17.9	18.1	17.8	19.4	15.5	13.9
M94-133132	12.8	14.1	14.0	13.5	12.7	12.7	14.0	11.2	10.2
M94-139132	13.5	15.2	14.3	13.7	14.5	13.5	13.8	11.5	11.5
M94-147018	14.3	16.9	14.6	14.9	15.0	12.9	15.0	13.4	11.4
M94-147035	14.7	15.3	16.6	15.9	14.6	13.9	15.5	12.6	12.8
M94-161141	15.5	16.7	15.9	16.9	16.1	16.2	16.2	13.8	12.2
M94-175039	15.6	14.4	16.0	15.3	17.8	16.3	16.2	14.5	14.1
M94-175050	15.7	16.5	16.4	15.3	17.2	16.2	16.7	14.3	13.2
M94-176021	16.0	17.2	16.0	16.5	17.9	15.2	17.5	14.3	13.7
M94-176109	14.6	15.7	14.8	14.6	16.7	15.2	15.5	12.8	11.2
M94-190023	14.4	15.7	15.0	15.7	15.0	13.7	14.6	13.4	11.8
M94-190041	13.8	15.2	13.2	15.2	14.5	13.9	14.0	13.5	11.0
M94-190084	13.1	15.0	14.0	13.2	14.3	12.6	13.0	11.5	11.0
M94-275024	16.8	18.6	17.4	16.5	17.6	16.5	18.1	15.6	13.9
M95-101005	16.7	17.1	15.8	16.6	17.9	17.5	17.6	15.8	15.2
M95-114006	14.9	16.2	15.1	16.2	15.6	14.7	15.8	12.5	12.9
M95-123116	15.1	17.3	14.9	15.0	16.3	16.0	15.7	13.0	12.7
M95-123023	17.1	18.2	16.4	16.2	19.3	19.2	18.7	14.6	13.9
ND95-1564	15.9	16.9	15.8	17.1	16.1	16.4	16.8	14.4	13.4
ND97-763	15.4	16.8	15.3	15.9	16.6	15.4	15.7	14.8	12.9
ND97-1037	16.6	16.9	17.3	16.9	17.6	16.9	17.5	15.9	13.6
ND97-1203	17.1	18.4	17.6	17.3	19.7	17.5	17.2	14.6	14.5
ND97-1215	15.9	17.0	16.0	15.2	17.4	16.7	18.5	13.5	12.5
ND97-1218	16.3	17.3	16.0	14.6	18.4	17.4	19.6	14.5	12.6
ND97-1223	17.1	17.2	16.7	17.5	18.3	18.4	18.2	15.9	14.3
ND97-1676	16.5	17.3	16.6	17.4	18.1	16.7	19.3	13.7	12.8
ND97-2086	17.3	17.5	17.6	19.7	18.1	16.9	17.6	14.6	16.7
OAC98-33	18.4	19.8	18.8	19.3	20.3	18.7	19.6	15.0	15.7
OAC99-17	19.5	20.0	18.5	19.2	22.6	22.1	21.1	16.8	15.8
OAC99-36	17.3	18.1	17.0	18.3	19.2	18.2	18.2	15.0	14.8
ORC 9901	17.1	18.2	15.7	16.5	19.5	18.9	18.9	14.9	14.3
ORC 9902	15.7	17.2	16.2	16.6	17.1	17.6	15.1	13.4	12.4
ORC 9903	16.9	16.9	15.8	17.1	19.0	20.1	16.3	14.9	14.8
OT99-1	20.6	21.9	20.4	20.2	22.3	23.0	22.9	17.3	16.6
OT99-2	15.4	15.9	15.5	14.9	18.4	15.8	17.7	12.9	11.9
OT99-4	15.8	17.5	15.4	16.4	17.7	15.9	18.2	12.8	12.2
OT99-5	16.4	17.7	16.7	15.9	17.2	17.4	18.5	14.9	13.0
SD97-652	15.1	15.9	17.6	15.2	15.9	15.3	14.2	13.7	13.2
SD97-749	15.4	15.9	16.8	16.6	16.6	15.5	15.1	13.6	13.0
SD97-776	16.2	17.5	17.9	15.3	16.7	17.0	16.1	14.3	14.9
SD97-1313	15.3	16.1	16.4	15.5	15.7	16.0	15.5	14.2	12.6
SD97-2135	15.7	17.7	16.3	15.5	16.6	16.0	16.5	12.7	14.2
SD97-2154	19.9	20.8	20.8	20.4	22.2	21.3	19.3	17.4	17.2
SD97-2178	17.6	17.0	22.0	17.8	18.3	18.3	16.4	14.5	16.3
SD97-2307	14.4	14.3	14.0	15.1	16.0	14.5	15.7	13.3	12.5
SD97-2585	19.2	19.0	19.7	20.0	21.0	21.0	19.4	17.2	16.5
SD97-2915	18.0	19.0	18.9	18.7	18.6	20.4	17.5	14.8	16.1

PRELIMINARY TEST 0, 2000

PROTEIN (%)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Brookings SD	Watertown SD
Lambert (0)	41.4	42.8	40.6	38.3	43.9
Parker (I)	41.4	41.0	41.3	41.1	42.1
Surge	42.4	43.3	42.7	39.0	44.6
Traill (E)	42.7	43.9	41.7	41.6	43.5
M94-133132	42.1	43.0	40.9	40.8	43.6
M94-139132	40.0	41.0	39.9	36.6	42.5
M94-147018	40.9	42.0	40.0	40.5	41.2
M94-147035	40.6	41.5	41.2	37.5	42.0
M94-161141	40.4	41.4	39.6	38.7	42.1
M94-175039	40.0	39.9	40.1	38.4	41.4
M94-175050	41.6	42.3	41.5	39.4	43.4
M94-176021	41.3	42.1	41.1	38.8	43.1
M94-176109	41.2	41.8	40.9	37.9	44.1
M94-190023	42.0	42.9	40.9	40.8	43.5
M94-190041	41.2	41.2	40.2	40.5	42.8
M94-190084	40.1	39.4	41.2	37.7	42.1
M94-275024	43.0	45.2	42.9	38.1	45.7
M95-101005	42.6	42.5	41.8	40.7	45.2
M95-114006	41.6	41.6	39.0	43.8	41.8
M95-123116	41.3	41.7	40.1	42.8	40.7
M95-123023	42.2	40.7	39.3	47.3	41.3
ND95-1564	40.8	41.4	39.8	39.2	43.0
ND97-763	39.9	40.8	39.1	37.1	42.4
ND97-1037	40.4	41.3	39.6	39.8	41.1
ND97-1203	42.4	42.5	41.9	42.0	43.1
ND97-1215	42.3	42.1	41.3	41.7	44.1
ND97-1218	42.7	41.3	41.1	41.9	46.3
ND97-1223	41.0	41.3	41.4	39.2	42.2
ND97-1676	41.2	41.1	40.9	40.1	42.9
ND97-2086	42.6	42.8	41.2	39.4	47.0
OAC98-33	40.0	34.6	41.5	41.3	42.8
OAC99-17	40.6	40.5	38.9	41.6	41.5
OAC99-36	40.3	41.4	39.0	39.7	41.0
ORC 9901	39.7	40.0	39.9	37.8	41.2
ORC 9902	42.1	42.7	41.6	39.3	44.7
ORC 9903	40.8	41.2	41.1	39.1	41.7
OT99-1	39.9	40.5	39.8	37.8	41.5
OT99-2	40.7	40.2	39.5	40.8	42.1
OT99-4	41.4	43.0	41.6	38.0	43.0
OT99-5	41.6	42.8	41.2	38.8	43.5
SD97-652	41.9	42.3	41.9	39.9	43.6
SD97-749	40.1	40.5	40.9	37.3	41.7
SD97-776	40.8	41.0	40.4	39.0	43.1
SD97-1313	41.7	42.8	41.6	39.9	42.6
SD97-2135	40.2	40.7	40.3	39.0	40.7
SD97-2154	40.7	40.9	40.1	40.7	41.0
SD97-2178	41.1	41.1	41.5	39.3	42.5
SD97-2307	39.9	40.2	40.0	38.2	41.3
SD97-2585	41.6	42.7	41.3	39.5	43.2
SD97-2915	42.2	43.2	42.5	39.2	43.7

PRELIMINARY TEST 0, 2000

OIL (%)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Brookings SD	Watertown SD
Lambert (0)	20.2	20.2	21.6	20.3	18.6
Parker (I)	19.2	19.8	19.8	18.8	18.4
Surge	19.8	19.3	20.0	21.7	18.2
Traill (E)	18.9	18.6	19.7	19.1	18.0
M94-133132	19.5	19.4	20.6	19.3	18.5
M94-139132	20.1	20.2	21.1	20.4	18.8
M94-147018	19.8	20.3	20.7	19.1	19.3
M94-147035	19.8	20.0	20.6	20.3	18.2
M94-161141	19.9	20.0	20.9	20.1	18.7
M94-175039	19.8	19.9	20.3	20.0	18.8
M94-175050	19.4	19.6	19.8	20.1	18.1
M94-176021	19.7	19.9	20.6	19.8	18.6
M94-176109	19.4	19.3	20.8	19.9	17.7
M94-190023	19.4	19.3	20.3	19.4	18.7
M94-190041	19.1	19.4	20.0	19.7	17.4
M94-190084	19.3	19.5	19.7	19.9	18.1
M94-275024	18.8	18.2	19.7	20.0	17.4
M95-101005	19.2	19.7	20.5	19.3	17.4
M95-114006	19.2	19.5	20.6	18.8	17.9
M95-123116	19.4	19.9	20.7	17.5	19.3
M95-123023	19.0	20.5	21.1	14.8	19.4
ND95-1564	19.6	19.1	20.2	21.0	18.1
ND97-763	20.5	20.3	21.5	21.2	18.9
ND97-1037	19.5	19.5	21.2	18.9	18.5
ND97-1203	19.0	19.4	20.1	18.4	18.2
ND97-1215	18.6	19.2	19.8	18.2	17.5
ND97-1218	18.8	19.9	20.2	18.6	16.7
ND97-1223	20.6	20.3	20.7	21.8	19.6
ND97-1676	19.6	19.8	20.2	20.4	17.9
ND97-2086	19.1	18.8	19.9	20.0	17.6
OAC98-33	19.4	20.7	19.2	19.9	18.0
OAC99-17	20.0	20.1	21.3	19.1	19.3
OAC99-36	19.8	19.3	20.4	20.2	19.2
ORC 9901	20.4	20.3	21.1	20.8	19.5
ORC 9902	18.7	18.4	19.3	20.2	16.9
ORC 9903	19.5	19.4	20.1	19.9	18.5
OT99-1	20.0	19.8	20.7	20.0	19.3
OT99-2	20.1	20.5	21.5	19.1	19.1
OT99-4	20.5	20.8	21.1	20.5	19.6
OT99-5	19.9	19.8	20.3	20.6	19.0
SD97-652	19.5	19.6	20.1	19.8	18.5
SD97-749	19.6	19.5	19.7	20.8	18.6
SD97-776	20.0	19.5	20.3	21.1	19.2
SD97-1313	19.3	19.0	20.0	19.7	18.6
SD97-2135	20.1	20.2	20.7	20.0	19.6
SD97-2154	19.4	19.5	20.2	19.2	18.7
SD97-2178	19.5	19.9	19.6	20.4	18.2
SD97-2307	19.5	19.2	20.2	20.0	18.4
SD97-2585	19.2	18.9	19.7	19.5	18.5
SD97-2915	19.5	19.1	19.4	21.2	18.5

Uniform Test I, 2000

	Strain	Parentage	Previous Testing	Generation Composited	Unique Traits
1.	Parker (I)	A79-136012 x Dawson	11	F5	Rps1
2.	IA1008 (SCN)	Northrup King S20-20 x Jack	2	F5	SCN
3.	IA2050 (L)(BSR)	Northrup King S24-92 x A91-501002	2	F5	BSR
4.	Lambert (0)	M75-274 x M76-151	8	F5	Rps1
5.	A98-781041	Pioneer P9204 x Pioneer P9281	PT I	F5	
6.	A98-781059	Northrup King S24-92 x AgriPro 3355	PT I	F4	
7.	M90-184111	L85P-558 x M86-1973	3	F5	Rps1, SCN
8.	M91-113037	Parker x Archer	2	F4	Rps1-k, BSR
9.	M91-188076	Leslie x M88-390	1	F5	Rps1a
10.	M91-234086	Lambert x Archer	1	F5	Rps1k, BSR
11.	M92-106016	Hendricks x Archer	1	F4	Rps1k, BSR
12.	M92-225124	Parker x M89-1678	1	F5	Rps1a, SCN 3
13.	M93-108103	Sturdy x AC90-115043	PT I	F4	Rps1a
14.	M93-149059	Sturdy x ORC9002	PT I	F4	Rps1a
15.	M93-149112	Sturdy x ORC9002	PT I	F4	Rps1a
16.	SD92-26	IA2008 x Ozzie	PT I	F5	
17.	SD96-111	IA2008 x HS88-4909	PT I	F5	
18.	SD96-314K	Freeborn x Surge	SCN UT II	?	SCN
19.	SD96-367	Evans x Vinton 81	PT I	F5	Tofu
20.	SD96-460K	(Freeborn x Surge) x Hendricks	SCN UT II	?	SCN
21.	SD96-755	ORC9002 x Agassiz	PT I	F5	
22.	SD(ND)95-1663	Parker x Pioneer 9061	1	F5	

UNIFORM TEST I, 2000

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Hum-boldt	Waseca	Emerg. Score Ames	Shattering Score Manhattan	Greenstem Score Arlington %	PR Laf. Race 7	PS Lafayette a %	P&SB Lafayette n %
Parker (I)	WGBDYBrIEp	4.0	4.5	5.0	1.0	1.8	S	28	0
IA1008 (SCN)	WGBDYYIep	4.0	4.7	2.0	2.0	2.5	R	46	0
IA2050 (L)(BSR)	PTBSYBIIEp	4.0	4.7	2.0	3.0	1.5	R	4	2
Lambert (0)	PGBSYBflep	4.0	4.5	3.0	2.0	2.0	S	72	4
A98-781041	PTBSYBIIEp	3.0	4.7	2.0	2.0	2.8	R	40	4
A98-781059	PTBDYBIIep	4.0	4.7	1.0	2.0	2.3	R	12	2
M90-184111	WGBDYBflEp	4.0	4.5	3.0	3.0	1.3	R	32	0
M91-113037	WGTDYBflH	4.0	4.7	5.0	2.0	1.5	R	54	4
M91-188076	PGBDYBflH	4.0	4.3	5.0	2.0	2.0	H	36	4
M91-234086	PGTDYBflep	3.0	4.5	3.0	3.0	2.0	H	18	0
M92-106016	PGBDYBflEp	4.0	4.3	2.0	2.0	3.3	R	28	6
M92-225124	WGBDYBflEp	4.0	4.7	2.0	4.0	2.0	R	44	0
M93-108103	PGBDYIblEp	3.0	4.3	5.0	2.0	2.3	R	28	4
M93-149059	PT+GBDYBIIep	4.0	4.5	5.0	3.0	3.0	H	32	6
M93-149112	PGBDYBIIep	4.0	4.5	5.0	2.0	3.0	R	4	2
SD92-26	PGTDYIblEp	3.0	4.2	3.0	1.0	2.0	H	62	4
SD96-111	WGBDYBflEp	4.0	4.5	5.0	2.0	1.8	R	32	4
SD96-314K	WTBDYBIIep	4.0	4.2	2.0	1.0	2.8	S	16	6
SD96-367	WGBDYYIep	3.0	4.5	3.0	2.0	1.8	S	20	14
SD96-460K	P+WT+GB+TDYBrIH	4.0	4.2	3.0	2.0	2.8	S	22	6
SD96-755	PGTDYIblEp	3.0	4.3	1.0	2.0	1.8	H	34	2
SD(ND)95-1663	PGBDYBflEp	4.0	4.8	3.0	2.0	1.5	S	48	0

UNIFORM TEST I, 2000

SDS DATA

Strain	SDS	
	Bloomington DX	Pontiac DX
Parker (I)	0.0	0.1
IA1008 (SCN)	0.1	0.0
IA2050 (L)(BSR)	0.0	0.0
Lambert (0)	0.1	0.0
A98-781041	0.0	0.0
A98-781059	0.1	0.0
M90-184111	0.1	0.0
M91-113037	0.0	0.0
M91-188076	0.0	0.0
M91-234086	0.2	0.0
M92-106016	0.0	0.0
M92-225124	0.1	0.0
M93-108103	0.0	0.0
M93-149059	0.0	0.0
M93-149112	0.0	0.0
SD92-26	0.1	0.2
SD96-111	0.2	0.2
SD96-314K	0.0	0.0
SD96-367	0.1	0.1
SD96-460K	0.0	0.0
SD96-755	0.0	0.0
SD(ND)95-1663	0.1	0.3

UNIFORM TEST I, 2000

REGIONAL SUMMARY

No. of Tests Strain	Yield 15 bu/a	Rank 15 No.	Maturity 13 Date	Lodging 15 Score	Plant Height 14 In.	Seed Size 15 g/100	Composition Protein 5 %	 Oil 5 %
Parker (I)	47.9	14	9/14	2.2	34	16.5	41.6	20.0
IA1008 (SCN)	48.4	10	2.9	1.5	34	17.9	42.8	19.2
IA2050 (L)(BSR)	53.5	2	3.9	1.6	33	15.8	41.6	19.5
Lambert (0)	41.8	21	-6.8	1.6	28	15.4	42.4	20.4
A98-781041	50.6	3	2.6	1.7	31	13.5	41.4	19.8
A98-781059	54.4	1	3.3	1.6	31	15.2	39.5	20.7
M90-184111	49.4	6	1.9	1.8	30	15.3	39.4	21.2
M91-113037	49.2	8	-1.9	1.7	31	17.0	40.5	20.3
M91-188076	47.1	18	-0.5	1.8	34	16.5	41.8	19.9
M91-234086	49.2	8	-1.8	1.9	34	15.3	41.5	20.4
M92-106016	47.9	14	-2.8	1.6	30	17.5	40.3	20.4
M92-225124	46.3	19	-2.2	2.0	31	16.9	42.1	20.2
M93-108103	48.1	13	-0.7	1.6	32	16.8	42.3	19.3
M93-149059	49.3	7	-0.4	1.7	33	17.1	41.0	19.9
M93-149112	48.2	11	1.3	1.7	33	16.4	41.5	19.7
SD92-26	47.2	17	-1.0	1.7	34	13.1	42.0	18.8
SD96-111	48.2	11	0.1	2.0	34	14.3	40.0	21.0
SD96-314K	47.6	16	3.8	1.9	34	16.5	41.7	19.8
SD96-367	40.6	22	0.5	1.7	34	20.1	44.1	19.2
SD96-460K	49.7	5	4.8	1.7	33	16.2	41.0	20.2
SD96-755	45.8	20	0.3	1.9	34	15.1	40.3	19.8
SD(ND)95-1663	50.0	4	-3.2	2.0	33	15.6	39.5	20.7

122.3 Days After Planting

UNIFORM TEST I, 2000

1999-2000 2-YEAR MEAN

No. of Tests Strain	Yield 29 bu/a	Rank 29 No.	Maturity 25 Date	Lodging 29 Score	Plant Height 30 In.	Seed Size 29 g/100	Composition Protein 9 %	 Oil 9 %
Parker	49.8	7	9/14	2.3	36	17.0	40.9	20.1
IA1008	50.5	5	3.1	1.5	36	17.6	41.2	19.1
IA2050	54.5	1	4.2	1.6	33	15.8	41.2	19.4
Lambert	42.6	11	-6.6	1.5	28	15.4	41.6	20.5
M90-184111	52.1	2	2.3	1.9	32	15.5	38.9	21.3
M91-113037	50.7	4	-1.2	1.7	32	17.1	40.0	20.3
M91-188076	49.5	9	-0.3	1.9	35	17.2	41.1	20.2
M91-234086	50.2	6	-1.5	1.8	34	15.5	40.8	20.2
M92-106016	49.6	8	-2.6	1.7	32	17.6	39.9	20.3
M92-225124	48.3	10	-0.5	2.0	33	17.3	41.1	20.1
SD(ND)95-1663	50.8	3	-3.4	2.0	33	15.8	39.0	20.8

122.9 Days After Planting

1998-2000 3-YEAR MEAN

No. of Tests Strain	41	41	36	41	42	40	14	14
Parker	50.3	5	9/14	2.6	36	17.3	41.4	20.1
IA1008	52.6	3	3.2	1.6	36	18.0	41.4	19.2
IA2050	56.2	1	4.0	1.7	33	16.3	41.4	19.6
Lambert	44.0	6	-6.1	1.8	29	15.8	42.0	20.4
M90-184111	53.2	2	2.6	2.1	32	15.9	39.3	21.3
M91-113037	51.9	4	-0.4	1.8	33	17.4	40.2	20.4

123.4 Days After Planting

1997-2000 4-YEAR MEAN

No. of Tests Strain	56	56	48	56	57	54	19	19
Parker	49.3	2	9/16	2.5	37	17.4	41.1	20.1
Lambert	43.5	3	-6.4	1.7	29	15.9	41.7	20.5
M90-184111	52.3	1	3.0	2.1	32	16.0	39.4	21.3

124.1 Days After Planting

UNIFORM TEST I, 2000

YIELD (bu/a)

Strain	Mean 15 Tests	Fayette-* ville AR	Ames IA	Kanawha IA	Sioux Rapids IA	Lafayette IN	Ingham County MI	Saginaw County MI	Lamber- ton MN	Waseca MN
Parker (I)	47.9	30.0	52.5	48.6	49.5	36.9	36.3	46.9	50.1	63.2
IA1008 (SCN)	48.4	52.0	51.3	59.4	51.0	44.1	39.9	43.2	44.2	52.9
IA2050 (L)(BSR)	53.5	50.9	52.3	58.6	58.0	47.3	37.1	53.6	45.7	69.4
Lambert (0)	41.8	33.9	43.1	41.5	45.5	36.2	9.3	23.6	43.0	57.4
A98-781041	50.6	42.8	49.9	53.5	57.6	40.6	44.0	52.6	50.0	66.2
A98-781059	54.4	54.8	59.5	58.1	58.6	47.9	42.1	53.5	48.4	67.9
M90-184111	49.4	54.7	56.4	58.6	51.5	41.5	27.3	46.6	48.3	55.8
M91-113037	49.2	48.4	52.9	47.2	52.1	37.6	32.5	44.5	45.7	64.8
M91-188076	47.1	52.2	49.7	45.5	41.8	40.3	32.0	48.1	44.7	60.1
M91-234086	49.2	51.4	55.7	47.8	53.0	41.0	47.5	46.6	44.3	63.8
M92-106016	47.9	44.9	48.0	48.2	52.7	43.0	28.0	46.4	42.5	60.0
M92-225124	46.3	46.5	45.5	52.5	56.1	38.4	36.1	41.5	47.4	57.2
M93-108103	48.1	45.6	50.8	45.3	47.5	39.4	42.3	27.7	47.5	62.2
M93-149059	49.3	55.0	56.6	48.9	50.8	41.5	23.8	39.4	50.1	62.4
M93-149112	48.2	53.1	52.9	47.2	57.9	36.0	19.7	48.8	46.2	63.9
SD92-26	47.2	46.0	47.1	45.3	49.0	39.8	40.0	49.2	46.1	66.0
SD96-111	48.2	27.7	56.7	49.8	50.6	35.9	41.9	41.9	49.4	70.2
SD96-314K	47.6	50.4	48.1	52.0	49.6	35.0	37.9	48.3	47.2	63.2
SD96-367	40.6	53.9	38.0	42.4	42.2	30.3	15.2	30.9	40.8	63.1
SD96-460K	49.7	49.0	51.3	51.0	50.2	43.2	28.0	45.1	50.6	70.0
SD96-755	45.8	47.6	43.6	51.5	49.4	38.5	23.1	47.4	48.3	57.4
SD(ND)95-1663	50.0	56.9	53.0	49.2	48.4	39.6	39.2	46.8	46.4	64.1
C.V. (%)		10.2	10.2	10.2	3.9	7.6	9.3	4.8	9.2	10.3
L.S.D. (5%)		7.8	10.8	10.6	9.9	5.0	9.8	6.0	7.1	10.7
Row Sp. (In.)		7	27	27	27	24	15	15	10	10
Rows/Plot		7	4	4	4	4	6	6	10	10
Reps		3	2	2	2	3	2	2	3	3

* Data not included in the mean.

UNIFORM TEST I, 2000

YIELD (bu/a)

Strain	Beemer NE	Cotesfield NE	Chatham Ont.	Talbotville Ont.	Brook-ings SD	Water-town SD	Arlington WI
Parker (I)	48.7	38.5	53.5	56.5	41.0	34.6	62.1
IA1008 (SCN)	48.5	46.7	58.7	56.1	37.7	37.0	55.4
IA2050 (L)(BSR)	53.9	57.7	66.9	62.6	43.9	36.9	59.2
Lambert (0)	46.9	39.5	55.6	54.6	41.4	32.8	57.2
A98-781041	53.5	55.1	63.0	42.5	35.3	36.2	59.3
A98-781059	52.5	60.7	68.7	63.1	39.3	35.4	60.6
M90-184111	52.3	51.7	57.4	56.1	35.7	38.0	64.1
M91-113037	50.5	45.9	68.1	57.2	40.1	37.0	61.3
M91-188076	51.5	40.0	57.9	60.7	42.5	32.0	59.5
M91-234086	51.6	40.6	60.7	57.4	37.5	34.6	56.5
M92-106016	51.9	46.4	62.0	56.5	40.1	32.9	59.2
M92-225124	50.8	25.3	59.3	54.6	37.5	34.4	58.2
M93-108103	52.4	46.7	62.8	57.9	42.6	37.1	58.7
M93-149059	51.7	46.6	68.4	53.6	38.4	43.7	63.1
M93-149112	50.0	54.0	63.6	54.3	39.4	33.8	56.0
SD92-26	46.9	38.3	58.8	52.9	39.9	34.4	54.6
SD96-111	46.0	32.6	57.0	52.5	40.0	38.7	60.6
SD96-314K	43.9	44.8	62.3	50.5	36.1	35.6	59.6
SD96-367	40.7	36.9	52.7	52.5	35.2	33.6	54.7
SD96-460K	48.3	53.9	62.2	58.5	39.6	35.7	58.3
SD96-755	41.1	43.2	65.5	53.9	35.8	30.4	58.5
SD(ND)95-1663	53.9	38.3	60.1	56.9	44.3	46.1	63.8
C.V. (%)	6.5	15.3	9.0	6.4	12.7	16.6	5.2
L.S.D. (5%)	6.5	13.8	7.6	4.2	8.2	9.9	2.8
Row Sp. (In.)	30	30	17	14	30	30	15
Rows/Plot	4	4	5	4	4	4	6
Reps	3	3	3	4	3	3	4

UNIFORM TEST I, 2000

YIELD RANK

Strain	Yield Rank	Fayette-* ville AR	Ames IA	Kanawha IA	Sioux Rapids IA	Lafayette IN	Ingham County MI	Saginaw County MI	Lamber- ton MN	Waseca MN
Parker (I)	14	21	9	13	15	17	11	9	2	11
IA1008 (SCN)	10	8	11	1	10	3	7	15	19	22
IA2050 (L)(BSR)	2	10	10	2	2	2	10	1	15	3
Lambert (0)	21	20	21	22	19	18	22	21	20	18
A98-781041	3	19	14	5	4	9	2	3	4	5
A98-781059	1	3	1	4	1	1	4	2	6	4
M90-184111	6	4	4	3	9	6	17	11	7	21
M91-113037	8	13	7	16	8	16	13	14	15	7
M91-188076	18	7	15	18	22	10	14	7	17	16
M91-234086	8	9	5	15	6	8	1	11	18	10
M92-106016	14	18	17	14	7	5	15	12	21	17
M92-225124	19	15	19	6	5	15	12	17	10	20
M93-108103	13	17	13	19	19	13	3	20	9	15
M93-149059	7	2	3	12	11	6	18	18	2	14
M93-149112	11	6	7	16	3	19	20	5	13	9
SD92-26	17	16	18	19	17	11	6	4	14	6
SD96-111	11	22	2	10	12	20	5	16	5	1
SD96-314K	16	11	16	7	14	21	9	6	11	11
SD96-367	22	5	22	21	21	22	21	19	22	13
SD96-460K	5	12	11	9	13	4	16	13	1	2
SD96-755	20	14	20	8	16	14	19	8	7	18
SD(ND)95-1663	4	1	6	11	18	12	8	10	12	8

* Data not included in the mean.

UNIFORM TEST I, 2000

YIELD RANK

Strain	Beemer NE	Cotesfield NE	Chatham Ont.	Talbotville Ont.	Brook-ings SD	Water-town SD	Arlington WI
Parker (I)	14	17	21	9	6	13	4
IA1008 (SCN)	15	7	16	12	15	6	21
IA2050 (L)(BSR)	1	2	4	2	2	8	11
Lambert (0)	17	16	20	14	5	20	18
A98-781041	3	3	7	22	21	9	10
A98-781059	4	1	1	1	13	12	6
M90-184111	6	6	18	11	20	4	1
M91-113037	12	11	3	7	7	6	5
M91-188076	10	15	17	3	4	21	9
M91-234086	9	14	12	6	16	13	19
M92-106016	7	10	11	10	7	19	11
M92-225124	11	22	14	13	16	15	16
M93-108103	5	8	8	5	3	5	13
M93-149059	8	9	2	17	14	2	3
M93-149112	13	4	6	15	12	17	20
SD92-26	18	19	15	18	10	15	23
SD96-111	19	21	19	20	9	3	6
SD96-314K	20	12	9	21	18	11	8
SD96-367	22	20	22	19	22	18	22
SD96-460K	16	5	10	4	11	10	15
SD96-755	21	13	5	16	19	22	14
SD(ND)95-1663	1	18	13	8	1	1	2

UNIFORM TEST I, 2000

MATURITY (date)

Strain	Mean 13 Tests	Fayette-* ville AR	Ames IA	Kanawha IA	Sioux Rapids IA	Lafayette IN	Ingham County MI	Saginaw County MI	Lamber- ton MN	Waseca MN
Parker (I)	09/14	07/19	09/02			08/24	09/28	09/07	09/26	09/18
IA1008 (SCN)	2.9	7	1			1	3	3	0	2
IA2050 (L)(BSR)	3.9	5	4			7	4	4	1	-1
Lambert (0)	-6.8	-3	-10			-9	-14	1	-12	-12
A98-781041	2.6	4	4			7	1	4	1	-5
A98-781059	3.3	10	3			5	4	5	0	1
M90-184111	1.9	3	5			2	-1	3	-1	-1
M91-113037	-1.9	1	-1			-1	1	1	-7	-9
M91-188076	-0.5	4	-1			-1	2	2	-5	-6
M91-234086	-1.8	1	-5			-1	1	2	-7	-9
M92-106016	-2.8	1	-8			-2	1	2	-9	-9
M92-225124	-2.2	0	-5			-3	0	1	-5	-7
M93-108103	-0.7	5	-3			0	1	1	-4	-4
M93-149059	-0.4	3	-3			0	2	2	-4	-6
M93-149112	1.3	3	0			-1	1	2	-2	-1
SD92-26	-1.0	5	-2			0	0	2	-5	-4
SD96-111	0.1	-1	-6			-1	1	2	-3	1
SD96-314K	3.8	7	5			4	3	4	1	-1
SD96-367	0.5	7	-1			0	0	1	-2	-5
SD96-460K	4.8	1	5			6	3	5	3	3
SD96-755	0.3	4	2			0	2	3	-4	-6
SD(ND)95-1663	-3.2	3	-6			-3	0	1	-10	-9
Date Planted	05/15	04/25	05/01			05/05	06/09	05/05	05/22	05/05
Days to Mature	122	85	124			111	111	125	127	136

* Data not included in the mean.

UNIFORM TEST I, 2000

MATURITY (date)

Strain	Beemer NE	Cotesfield NE	Chatham Ont.	Talbotville Ont.	Brook-ings SD	Water-town SD	Arlington WI
Parker (I)	09/12	09/10	09/20	09/23	09/13	09/14	09/20
IA1008 (SCN)	2	6	3	9	-2	4	7
IA2050 (L)(BSR)	4	9	2	8	5	4	0
Lambert (0)	-4	-4	-5	-4	-2	-4	-9
A98-781041	1	4	3	8	0	3	4
A98-781059	1	7	4	7	3	3	2
M90-184111	3	4	2	5	-1	1	4
M91-113037	-1	2	-2	0	-1	-4	-3
M91-188076	1	2	0	0	3	-1	-3
M91-234086	-1	0	-2	2	0	-1	-3
M92-106016	1	2	-2	-1	-3	-4	-4
M92-225124	-2	1	-2	-3	1	-2	-3
M93-108103	0	0	-1	0	2	0	-1
M93-149059	-1	1	-2	2	0	3	1
M93-149112	0	3	2	7	3	1	2
SD92-26	-1	2	-2	0	1	-1	-3
SD96-111	0	2	-1	1	1	1	4
SD96-314K	1	5	2	8	5	6	7
SD96-367	1	4	-2	2	3	5	1
SD96-460K	2	7	3	9	4	3	11
SD96-755	-1	3	1	3	-1	0	3
SD(ND)95-1663	-2	-2	-5	-2	4	-3	-5
Date Planted	05/18	05/18	05/29	05/29	05/05	05/15	05/03
Days to Mature	117	115	114	117	131	122	140

UNIFORM TEST I, 2000

LODGING (score)

Strain	Mean 15 Tests	Fayette-* ville AR	Ames IA	Kanawha IA	Sioux Rapids IA	Lafayette IN	Ingham County MI	Saginaw County MI	Lamber- ton MN	Waseca MN
Parker (I)	2.2	1.0	2.3	1.8	3.0	1.7	2.5	1.0	2.3	2.3
IA1008 (SCN)	1.5	1.0	1.8	1.5	2.0	1.0	1.0	1.0	2.3	1.0
IA2050 (L)(BSR)	1.6	1.0	1.5	1.8	2.3	1.0	1.0	1.0	2.7	1.3
Lambert (0)	1.6	1.0	2.0	1.8	2.0	1.0	0.5	1.0	2.3	1.3
A98-781041	1.7	1.0	1.8	1.5	1.8	1.0	1.5	1.0	2.7	1.3
A98-781059	1.6	1.0	1.8	1.5	1.8	1.0	1.0	1.0	2.0	2.0
M90-184111	1.8	1.0	1.5	2.0	2.3	1.0	1.0	1.0	3.0	2.0
M91-113037	1.7	1.0	2.0	2.0	1.8	1.0	1.5	1.0	2.3	2.0
M91-188076	1.8	1.0	2.0	1.8	1.8	1.0	1.0	1.0	2.7	2.3
M91-234086	1.9	1.0	2.5	1.5	1.5	1.2	2.5	1.0	2.7	1.7
M92-106016	1.6	1.0	1.8	1.8	2.0	1.0	1.0	1.0	2.7	1.0
M92-225124	2.0	1.0	2.0	2.0	2.5	1.2	1.0	1.0	2.7	1.7
M93-108103	1.6	1.0	1.8	2.0	2.0	1.0	1.5	1.0	2.3	1.0
M93-149059	1.7	1.0	2.3	1.8	1.8	1.0	1.0	1.0	2.0	1.7
M93-149112	1.7	1.0	1.5	2.0	1.8	1.0	1.0	1.0	3.0	1.3
SD92-26	1.7	1.0	2.0	1.5	1.8	1.2	1.5	1.0	3.0	1.7
SD96-111	2.0	1.0	2.0	2.0	2.5	1.0	1.5	1.0	3.3	2.3
SD96-314K	1.9	1.0	2.0	2.0	2.0	1.0	1.0	1.0	3.0	2.0
SD96-367	1.7	1.0	2.0	1.5	2.0	1.0	1.0	1.0	3.0	1.3
SD96-460K	1.7	1.0	1.8	1.8	1.8	1.2	1.0	1.0	3.0	1.3
SD96-755	1.9	1.0	1.5	1.8	2.5	1.8	1.0	1.0	3.0	1.7
SD(ND)95-1663	2.0	1.0	2.3	1.5	2.0	1.0	2.0	1.0	2.7	2.0

* Data not included in the mean.

UNIFORM TEST I, 2000

LODGING (score)

Strain	Beemer NE	Cotesfield NE	Chatham Ont.	Talbotville Ont.	Brook-ings SD	Water-town SD	Arlington WI
Parker (I)	1.0	3.7	3.3	2.0	2.0	1.0	2.8
IA1008 (SCN)	1.0	2.3	1.7	1.1	1.0	1.0	2.5
IA2050 (L)(BSR)	1.0	2.3	2.0	1.0	2.0	1.0	2.5
Lambert (0)	1.0	1.7	1.7	1.5	2.0	1.0	3.0
A98-781041	1.0	2.3	2.3	1.1	2.0	2.0	3.0
A98-781059	1.0	2.0	2.7	1.0	2.0	1.0	2.3
M90-184111	1.0	2.7	3.0	1.4	1.0	1.0	2.5
M91-113037	1.0	3.0	2.0	1.1	1.0	1.0	2.8
M91-188076	1.0	3.0	2.7	1.4	2.0	1.0	2.8
M91-234086	1.0	2.7	2.7	1.3	2.0	1.0	2.8
M92-106016	1.0	3.0	3.0	1.0	1.0	1.0	2.3
M92-225124	1.0	3.7	3.3	2.0	2.0	1.0	3.0
M93-108103	1.0	2.3	1.3	1.1	2.0	1.0	2.5
M93-149059	1.0	2.0	2.0	1.5	2.0	2.0	3.0
M93-149112	1.0	2.3	2.3	1.4	2.0	1.0	2.8
SD92-26	1.0	3.0	2.7	1.0	1.0	1.0	2.5
SD96-111	1.0	3.0	2.7	1.1	2.0	2.0	2.5
SD96-314K	1.0	3.0	2.0	1.8	2.0	2.0	2.3
SD96-367	1.0	2.3	2.0	1.1	2.0	2.0	2.5
SD96-460K	1.0	2.0	2.0	1.5	2.0	1.0	2.5
SD96-755	1.0	3.3	2.3	1.8	2.0	2.0	2.5
SD(ND)95-1663	1.0	3.3	1.7	1.6	2.0	2.0	3.5

UNIFORM TEST I, 2000

PLANT HEIGHT (inches)

Strain	Mean 14 Tests	Fayette-* ville AR	Ames IA	Kanawha IA	Sioux Rapids IA	Lafayette IN	Ingham County MI	Saginaw County MI	Lamber- ton MN	Waseca MN
Parker (I)	34	28	37	38	37	32	26	26	36	39
IA1008 (SCN)	34	19	42	39	37	32	25	26	36	36
IA2050 (L)(BSR)	33	23	35	35	36	30	25	25	34	34
Lambert (0)	28	14	29	31	29	24	11	17	31	33
A98-781041	31	23	29	35	34	27	26	21	29	33
A98-781059	31	21	33	34	37	31	25	25	32	31
M90-184111	30	18	35	34	36	27	20	19	32	32
M91-113037	31	22	34	36	36	29	23	19	30	34
M91-188076	34	24	37	37	35	32	26	24	34	39
M91-234086	34	24	36	36	38	30	28	22	32	38
M92-106016	30	20	33	34	34	27	23	20	30	31
M92-225124	31	20	31	36	34	29	23	20	32	33
M93-108103	32	19	33	35	33	29	28	20	34	33
M93-149059	33	20	36	37	34	31	21	20	34	33
M93-149112	33	23	33	37	35	28	24	23	34	33
SD92-26	34	22	37	39	36	31	29	24	35	35
SD96-111	34	13	39	37	37	29	29	23	37	40
SD96-314K	34	21	33	38	34	31	25	26	36	32
SD96-367	34	25	39	35	37	28	22	20	36	33
SD96-460K	33	24	36	36	36	33	24	24	35	34
SD96-755	34	21	35	39	37	32	22	24	36	37
SD(ND)95-1663	33	24	36	36	36	30	24	21	31	33

* Data not included in the mean.

UNIFORM TEST I, 2000

PLANT HEIGHT (inches)

Strain	Beemer NE	Cotesfield NE	Chatham Ont.	Talbotville Ont.	Brook-ings SD	Water-town SD	Arlington WI
Parker (I)		33	39	41	28	33	34
IA1008 (SCN)		37	41	37	24	33	36
IA2050 (L)(BSR)		33	38	34	31	30	38
Lambert (0)		25	31	34	26	34	37
A98-781041		34	38	36	20	30	36
A98-781059		31	38	35	27	25	38
M90-184111		33	40	37	18	25	35
M91-113037		33	36	36	24	35	33
M91-188076		36	41	41	26	38	37
M91-234086		36	41	40	25	33	37
M92-106016		31	34	34	25	30	36
M92-225124		31	41	36	27	28	37
M93-108103		34	34	36	29	36	37
M93-149059		32	39	36	25	41	39
M93-149112		36	42	38	30	34	41
SD92-26		36	40	36	28	34	35
SD96-111		33	37	36	28	40	34
SD96-314K		38	44	41	28	39	35
SD96-367		37	35	39	29	45	36
SD96-460K		37	39	39	31	30	34
SD96-755		36	40	42	21	36	37
SD(ND)95-1663		35	35	38	27	42	35

UNIFORM TEST I, 2000

SEED SIZE (g/100)

Strain	Mean 15 Tests	Fayette-ville AR	Ames IA	Kanawha IA	Sioux Rapids IA	Lafayette IN	Ingham County MI	Saginaw County MI	Lamber-ton MN	Waseca MN
Parker (I)	16.5		16.3	17.6	15.0	14.5	14.3	19.1	17.7	20.3
IA1008 (SCN)	17.9		16.9	21.0	18.8	15.9	15.4	20.4	17.4	20.4
IA2050 (L)(BSR)	15.8		16.0	17.0	16.6	13.9	13.0	16.1	15.3	16.7
Lambert (0)	15.4		15.4	15.6	15.4	13.0	13.8	17.0	15.9	16.3
A98-781041	13.5		12.8	14.0	13.0	11.4	12.0	14.8	13.6	14.7
A98-781059	15.2		15.5	16.3	15.2	12.4	13.8	16.8	15.5	17.4
M90-184111	15.3		15.6	17.0	14.1	13.3	13.2	18.6	15.4	17.1
M91-113037	17.0		17.1	16.7	17.4	14.3	14.3	18.6	17.8	18.5
M91-188076	16.5		16.1	16.5	15.1	13.2	13.6	19.9	16.4	18.8
M91-234086	15.3		15.6	15.8	15.2	12.9	12.5	16.8	15.7	16.8
M92-106016	17.5		17.0	18.1	17.6	15.0	15.3	19.8	18.4	19.5
M92-225124	16.9		16.9	18.4	17.4	14.2	14.1	18.4	18.3	17.9
M93-108103	16.8		15.7	16.7	15.7	13.8	14.2	19.6	17.1	20.5
M93-149059	17.1		17.2	17.7	17.6	13.6	15.0	19.4	17.6	18.5
M93-149112	16.4		16.7	16.4	16.3	13.5	13.8	18.9	16.7	17.5
SD92-26	13.1		13.6	13.5	12.8	10.5	10.9	14.5	14.2	16.7
SD96-111	14.3		15.2	14.8	12.6	12.1	12.3	17.2	15.4	15.5
SD96-314K	16.5		15.8	17.9	15.2	14.7	15.3	18.1	16.0	18.7
SD96-367	20.1		19.7	20.5	19.8	16.3	15.1	21.5	20.6	24.0
SD96-460K	16.2		16.2	17.1	15.8	14.0	14.0	17.1	15.8	17.6
SD96-755	15.1		14.3	15.8	14.8	12.4	13.4	17.6	15.1	15.7
SD(ND)95-1663	15.6		16.4	16.0	14.2	13.4	12.8	18.4	16.8	16.2

UNIFORM TEST I, 2000

SEED SIZE (g/100)

Strain	Beemer NE	Cotesfield NE	Chatham Ont.	Talbotville Ont.	Brook-ings SD	Water-town SD	Arlington WI
Parker (I)	15.7	17.2	20.3	17.4	9.0	14.6	18.4
IA1008 (SCN)	16.2	18.2	19.6	18.8	15.5	14.6	19.5
IA2050 (L)(BSR)	14.1	16.1	19.3	18.8	13.7	13.6	16.8
Lambert (0)	14.3	14.8	19.2	15.7	14.0	13.0	17.1
A98-781041	11.4	13.2	17.2	16.7	11.5	11.7	14.7
A98-781059	13.2	14.7	19.9	17.2	12.3	11.6	15.9
M90-184111	14.2	14.9	18.0	16.8	12.8	12.1	17.0
M91-113037	15.9	18.3	20.8	17.6	15.2	14.5	17.8
M91-188076	15.0	17.7	20.9	19.2	13.9	14.1	17.6
M91-234086	13.4	14.9	19.3	17.5	13.3	13.6	15.7
M92-106016	15.6	17.5	20.6	18.8	14.9	15.3	18.9
M92-225124	16.6	16.9	20.7	16.6	15.0	13.7	18.9
M93-108103	15.2	16.4	20.6	19.6	13.7	15.7	18.1
M93-149059	15.4	18.0	20.2	19.8	13.0	14.4	19.0
M93-149112	14.4	16.5	20.1	18.8	14.0	14.3	17.8
SD92-26	11.2	13.3	15.1	13.9	11.3	11.2	13.4
SD96-111	12.0	14.3	17.2	15.2	12.9	12.5	15.6
SD96-314K	14.7	16.6	20.2	18.1	12.8	15.0	18.5
SD96-367	19.0	19.7	23.6	23.0	18.0	19.2	20.9
SD96-460K	14.3	16.4	19.8	19.8	14.3	14.4	16.2
SD96-755	12.4	14.8	18.3	18.1	12.9	13.2	17.6
SD(ND)95-1663	15.9	15.5	18.3	15.2	13.1	15.1	17.5

UNIFORM TEST I, 2000

PROTEIN (%)

Strain	Mean 5 Tests	Ames IA	Sioux Rapids IA	Lafayette IN	Waseca MN	Brookings SD
Parker (I)	41.6	41.6	43.1	42.3	41.3	39.4
IA1008 (SCN)	42.8	43.1	44.3	42.1	42.4	42.0
IA2050 (L)(BSR)	41.6	42.4	43.7	42.0	39.2	40.8
Lambert (0)	42.4	43.2	43.5	44.9	40.8	39.8
A98-781041	41.4	42.0	43.8	42.4	40.7	38.1
A98-781059	39.5	41.0	40.4	39.6	39.7	36.8
M90-184111	39.4	41.2	40.7	40.1	38.3	36.6
M91-113037	40.5	42.4	42.0	42.0	39.0	37.1
M91-188076	41.8	42.5	42.7	42.3	41.3	40.0
M91-234086	41.5	42.1	42.3	43.3	39.7	40.0
M92-106016	40.3	41.0	41.7	41.1	39.4	38.3
M92-225124	42.1	43.2	44.8	42.5	39.4	40.5
M93-108103	42.3	41.5	42.9	44.2	42.5	40.5
M93-149059	41.0	41.6	43.2	42.2	38.3	39.4
M93-149112	41.5	41.3	42.3	43.6	39.2	41.0
SD92-26	42.0	42.9	43.9	42.0	41.2	40.0
SD96-111	40.0	40.5	41.8	40.8	39.2	37.9
SD96-314K	41.7	42.6	42.8	42.5	41.1	39.6
SD96-367	44.1	45.4	45.0	44.9	44.1	41.1
SD96-460K	41.0	41.5	43.0	41.9	39.5	39.1
SD96-755	40.3	40.6	42.3	40.8	39.9	37.9
SD(ND)95-1663	39.5	41.0	41.0	40.4	39.2	35.6

UNIFORM TEST I, 2000

OIL (%)

Strain	Mean 5 Tests	Ames IA	Sioux Rapids IA	Lafayette IN	Waseca MN	Brookings SD
Parker (I)	20.0	20.5	19.9	19.3	20.0	20.5
IA1008 (SCN)	19.2	19.5	18.7	20.0	19.0	18.8
IA2050 (L)(BSR)	19.5	19.8	19.0	19.4	20.2	19.4
Lambert (0)	20.4	20.6	19.7	19.0	21.0	21.6
A98-781041	19.8	20.3	19.1	19.9	20.2	19.4
A98-781059	20.7	20.9	20.3	20.5	20.6	21.0
M90-184111	21.2	20.8	20.5	21.4	21.6	21.9
M91-113037	20.3	20.1	19.5	20.0	21.0	21.2
M91-188076	19.9	20.1	19.5	19.7	20.2	20.3
M91-234086	20.4	20.9	19.8	20.0	20.9	20.1
M92-106016	20.4	20.1	19.9	20.2	21.1	20.6
M92-225124	20.2	19.7	20.8	19.6	21.2	20.0
M93-108103	19.3	19.5	19.1	19.1	19.8	19.2
M93-149059	19.9	19.4	19.4	19.5	20.9	20.3
M93-149112	19.7	19.9	19.4	19.3	20.5	19.2
SD92-26	18.8	18.3	18.0	19.3	19.6	19.1
SD96-111	21.0	21.3	20.4	20.6	21.2	21.4
SD96-314K	19.8	19.5	19.7	19.7	20.1	20.0
SD96-367	19.2	19.1	18.5	19.3	19.4	19.9
SD96-460K	20.2	20.6	19.9	20.4	20.2	20.1
SD96-755	19.8	19.9	19.3	19.6	20.1	20.0
SD(ND)95-1663	20.7	20.7	20.1	20.8	20.7	21.5

Preliminary Test I, 2000

	Strain	Parentage	Generation Composited	Unique Traits
1.	Parker (I)	A79-136012 x Dawson	F5	Rps1
2.	IA1008 (SCN)	Northrup King S20-20 x Jack	F5	SCN
3.	Lambert (0)	M75-274 x M76-151	F5	Rps1
4.	IA2050 (L)(BSR)	Northrup King S24-92 x A91-501002	F5	BSR
5.	A99-115006	A94-572029 x Pioneer 9321	F5	
6.	A99-115011	Pioneer 9172 x A94-572029	F5	
7.	A99-116008	Northrup King S20-91 x A94-572029	F5	
8.	A99-116014	A94-572029 x A92-627030	F5	
9.	A99-116015	A94-572029 x Pioneer 9321	F5	
10.	A99-116016	A94-572029 x Pioneer 9321	F5	
11.	A99-116021	A94-572029 x Pioneer 9321	F5	
12.	A99-116023	A94-572029 x Pioneer 9321	F5	
13.	A99-116025	A94-572029 x Pioneer 9321	F5	
14.	A99-116030	DSR-365 x A94-572029	F5	
15.	A99-116035	DSR-365 x A94-572029	F5	
16.	A99-116039	Pioneer 9172 x A94-572029	F5	
17.	A99-217007	DSR-365 x AP1995	F5	
18.	A99-217038	DSR-365 x A94-572029	F5	
19.	C1996	Kenwood 94 x CX1334-16	F5	
20.	C1999	Kenwood 94 x CX1334-16	F5	
21.	C2000	Kenwood 94 x CX1334-16	F5	
22.	M93-316029	M90-1459 x Lambert	F5	Rps1k
23.	M93-318100	Marcus 95 x Lambert	F5	Rps1k
24.	M93-326056	Kasota x M89-782	F5	Rps1c
25.	M93-330072	MN1301 x Granite	F5	Rps1, BSR
26.	M93-330105	MN1301 x Granite	F5	Rps1c, BSR
27.	M93-350114	M89-1006 x M89-932	F5	Rps1c
28.	M94-115011	Marcus 95 x M89-895	F4	Rps1k
29.	M94-161072	IA1006 x Agassiz	F5	Rps1, BSR
30.	M94-162105	IA2008R x M90-1278	F5	Rps1k, BSR
31.	M94-209136	Agassiz x AM90-211003	F5	Rps1, BSR
32.	M94-275010	M89-1006 x Kato	F5	Rps1c
33.	M95-106072	Agassiz x Marcus 95	F4	Rps1k
34.	M95-138088	Parker x Northrup King S19-90	F4	Rps1c
35.	OAC 98-12	92546-01td x OAC Bayfield	F5	
36.	OAC 99-21	M88-207 x OAC 92-08	F5	
37.	OAC 99-38	ND89-980 x OAC 92-08	F5	
38.	OAC 99-54	[(80-T108 x FH22-815) x 9271] x ND88-599	F5	
39.	ORC 9904	U91-2527 x Northrup King S24-92	F5	
40.	ORC 9910	Blackjack 21 x RCAT Calico	F5	
41.	SD96-1236	SL91-1767M x E91031	F5	
42.	SD97-412	Marcus x Sturdy	F5	
43.	SD97-556	Parker x SL91-1657N	F5	
44.	SD97-575	Parker x SL91-1657N	F5	
45.	SD97-1233	SL91-1767M x E91031	F5	
46.	SD97-1884	Parker x SL91-1252N	F5	
47.	SD97-1973	Kasota x SL91-1252N	F5	
48.	SD97-2111	OT 91-3 x Hendricks	F5	
49.	SD97-2226	SL91-1012 x SL91-1252N	F5	
50.	SD97-2676	OT 91-3 x SL91-1574	F5	

PRELIMINARY TEST I, 2000

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Humboldt	Chlorosis Score Wascea	Shattering Score Manhattan	PR Lafayette Race 7	PS Lafayette a %	P&SB Lafayette n %
Parker (I)	WGBDYBrIEp	4.0	4.5	2.0	S	28	0
IA1008 (SCN)	WGBDYYIep	4.0	4.7	2.0	R	46	0
Lambert (0)	PGBSYBflep	3.0	4.5	2.0	S	72	4
IA2050 (L)(BSR)	PTBSYBllEp	4.0	4.7	2.0	R	4	2
A99-115006	PGTSYBrIEp	4.0	4.7	1.0	R	40	10
A99-115011	PTBSYBllEp	4.0	4.7	1.0	R	4	0
A99-116008	PTBSYGrIH	3.0	4.7	2.0	R	7	18
A99-116014	PTBSYBllEp	4.0	4.8	1.0	S	28	2
A99-116015	PGTSYBllEp	4.0	4.7	2.0	R	14	2
A99-116016	PGTSYBllEp	4.0	4.7	1.0	R	6	2
A99-116021	PGTSYHIEp	4.0	4.7	1.0	R	12	2
A99-116023	PGBSYBflEp	4.0	4.5	1.0	H	26	2
A99-116025	PGTDYBllEp	4.0	4.8	2.0	R	8	0
A99-116030	WGBSYBllEp	4.0	4.7	2.0	S	8	12
A99-116035	WGTSYBllEp	4.0	4.7	2.0	R	6	0
A99-116039	PTBSYBllEp	4.0	4.5	2.0	R	22	0
A99-217007	PGBDYIblEp	3.0	4.5	2.0	S	0	14
A99-217038	PGBSYBllEp	4.0	4.2	2.0	R	8	4
C1996	PTBSYBllep	4.0	4.5	2.0	H	10	8
C1999	PTBDYGrIep	4.0	4.5	1.0	R	24	8
C2000	PTBDYBllep	4.0	4.8	2.0	R	22	10
M93-316029	PGBSYBflep	3.0	4.7	2.0	S	13	4
M93-318100	WGBDYBflep	4.0	4.5	3.0	R	10	0
M93-326056	WGBSYBflep	3.0	4.2	3.0	H	12	0
M93-330072	WGBDYYIep	4.0	4.5	2.0	R	36	4
M93-330105	PGBSYHIH	4.0	4.3	2.0	R	16	0
M93-350114	PGBSYYIH	4.0	4.3	2.0	R	2	2
M94-115011	PGBDYBflep	4.0	4.7	2.0	R	64	4
M94-161072	PGTDYIblep	4.0	4.2	3.0	S	48	4
M94-162105	WGTDYBflEp	4.0	4.3	3.0	R	38	0
M94-209136	PGBDYIblep	4.0	4.3	2.0	S	22	0
M94-275010	PGBDYIblep	3.0	4.0	3.0	R	28	0
M95-106072	WGBDYBflep	3.0	4.7	3.0	R	50	0
M95-138088	WGBDYYIEp	4.0	4.3	1.0	R	16	2
OAC 98-12	PGBDYYIep	3.0	4.2	3.0	R	30	2
OAC 99-21	PTBSYYIEp	3.0	4.5	1.0	H	36	4
OAC 99-38	PTBSYBrIEp	4.0	4.3	3.0	R	36	0
OAC 99-54	PGBDYYIEp	3.0	4.5	2.0	R	30	0
ORC 9904	WTBDYBllH	4.0	4.5	3.0	R	20	2
ORC 9910	PTBDYYIEp	4.0	4.7	1.0	S	16	0
SD96-1236	WTBDYGrIEp	4.0	4.7	2.0	R	18	0
SD97-412	WTBDYBrIEp	4.0	4.3	1.0	S	22	4
SD97-556	PGBDYIblEp	4.0	4.5	2.0	S	44	0
SD97-575	WGBDYBflEp	4.0	4.5	3.0	S	36	6
SD97-1233	PTBDYBllep	4.0	4.5	2.0	H	4	8
SD97-1884	WGBDYBflEp	4.0	4.5	2.0	H	56	2
SD97-1973	WTBDYBrIep	4.0	4.3	2.0	H	62	0
SD97-2111	PTBDYBllep	4.0	4.5	2.0	S	46	2
SD97-2226	PTBDYBllep	4.0	4.5	2.0	S	12	2
SD97-2676	PGBDYBflep	4.0	4.5	3.0	R	26	4

PRELIMINARY TEST I, 2000

REGIONAL SUMMARY

No. of Tests Strain	Yield 8 bu/a	Rank 8 No.	Maturity 7 Date	Lodging 8 Score	Plant Height 8 In.	Seed Size 8 g/100	Composition Protein 4 %	 Oil 4 %
Parker (I)	47.6	26	9/19	2.4	36	16.2	42.4	19.6
IA1008 (SCN)	44.6	41	3.1	1.7	35	17.3	42.2	19.1
Lambert (0)	43.1	47	-6.4	1.6	31	15.6	42.4	20.5
IA2050 (L)(BSR)	52.1	1	2.4	1.7	33	15.6	41.3	19.4
A99-115006	49.5	9	1.0	2.0	33	16.5	43.5	18.5
A99-115011	49.7	8	2.5	1.6	34	15.7	41.4	19.7
A99-116008	50.2	5	2.1	1.7	34	18.7	41.8	20.1
A99-116014	48.8	16	4.1	1.6	33	15.9	41.6	19.8
A99-116015	49.1	13	1.3	1.7	32	16.3	41.3	20.0
A99-116016	51.6	2	3.6	1.8	33	17.6	42.6	19.9
A99-116021	51.3	3	2.8	1.5	33	17.1	42.9	19.8
A99-116023	49.0	14	-0.2	1.9	33	15.3	42.7	19.4
A99-116025	50.6	4	3.6	1.8	33	17.2	41.9	19.8
A99-116030	48.0	22	3.2	1.4	33	15.9	42.4	19.2
A99-116035	48.2	19	3.4	1.5	32	14.2	42.2	19.6
A99-116039	48.4	18	0.9	1.9	34	16.6	41.7	19.3
A99-217007	44.9	39	4.5	2.0	32	12.4	40.7	19.5
A99-217038	49.2	11	4.6	1.7	34	15.4	42.1	19.7
C1996	39.4	50	1.5	2.0	35	15.4	46.7	17.2
C1999	43.7	45	5.5	2.6	36	15.4	46.9	16.6
C2000	41.0	49	6.0	2.4	38	15.7	46.9	16.8
M93-316029	45.0	38	-0.9	1.5	31	16.5	42.7	20.5
M93-318100	44.5	42	1.1	1.9	35	14.9	42.7	19.9
M93-326056	46.4	34	-4.3	1.6	33	15.3	41.3	19.4
M93-330072	48.2	19	-2.7	1.7	34	16.5	43.1	19.3
M93-330105	47.7	23	0.4	1.7	31	15.7	42.6	19.2
M93-350114	44.2	44	-3.6	1.7	33	15.4	43.1	18.9
M94-115011	48.2	19	0.4	1.9	31	17.0	42.0	20.7
M94-161072	46.8	33	-2.1	1.7	32	14.9	42.7	19.9
M94-162105	49.4	10	-2.1	1.5	34	15.7	41.9	19.3
M94-209136	47.7	23	-3.4	1.6	32	15.7	42.8	19.4
M94-275010	47.2	30	-2.4	1.8	36	16.8	43.9	18.6
M95-106072	44.3	43	-3.6	1.8	32	14.2	42.2	19.4
M95-138088	45.4	34	-1.1	1.8	32	17.2	42.3	19.9
OAC 98-12	50.2	5	0.4	2.0	32	17.7	42.6	20.3
OAC 99-21	45.3	37	1.0	1.8	34	15.7	44.2	19.7
OAC 99-38	42.6	48	-3.6	1.8	32	15.2	41.3	19.3
OAC 99-54	46.4	34	-1.5	2.0	35	16.2	43.7	18.7
ORC 9904	49.2	11	1.6	2.0	33	14.9	42.1	19.5
ORC 9910	47.6	26	-2.5	1.8	31	17.5	42.4	19.5
SD96-1236	47.6	26	1.7	1.9	37	15.0	41.2	19.7
SD97-412	48.7	17	2.5	2.0	35	15.5	40.8	19.9
SD97-556	47.7	23	-1.2	1.6	32	16.7	41.1	19.8
SD97-575	47.4	29	-2.6	2.2	34	16.1	42.4	19.4
SD97-1233	49.8	7	0.9	1.8	33	18.3	40.4	19.6
SD97-1884	49.0	14	-1.6	2.1	33	16.1	41.8	19.4
SD97-1973	43.7	45	-2.9	1.7	31	14.4	41.7	19.7
SD97-2111	47.1	32	-2.7	1.6	31	16.3	42.1	18.9
SD97-2226	47.2	30	-0.3	1.7	31	17.0	40.6	19.2
SD97-2676	44.8	40	-4.1	1.5	29	15.0	42.0	20.2

123.9 Days After Planting

PRELIMINARY TEST I, 2000

YIELD (bu/a)

Strain	Mean 8 Tests	Ames IA	Sioux Rapids IA	Ingham County MI	Lamber-ton MN	Waseca MN	Talbot-ville Ont.	Brookings SD	Watertown SD
Parker (I)	47.6	51.1	48.1	40.8	52.7	55.9	65.5	28.8	38.1
IA1008 (SCN)	44.6	46.9	54.2	31.1	47.5	55.9	58.5	31.1	31.7
Lambert (0)	43.1	48.5	43.1	30.4	43.3	53.6	55.2	34.0	36.7
IA2050 (L)(BSR)	52.1	57.3	64.2	39.6	57.4	65.6	66.9	35.0	31.2
A99-115006	49.5	57.8	53.3	38.2	50.3	64.8	59.0	30.9	41.7
A99-115011	49.7	51.4	59.0	36.7	53.5	67.4	59.6	33.8	36.5
A99-116008	50.2	50.7	54.7	37.7	53.5	61.0	62.3	37.3	44.2
A99-116014	48.8	59.2	58.3	28.3	56.6	54.4	59.6	29.8	44.2
A99-116015	49.1	59.5	50.4	38.3	50.4	61.6	61.7	34.1	36.5
A99-116016	51.6	47.5	57.3	47.6	54.9	62.3	59.2	38.9	45.4
A99-116021	51.3	62.5	57.6	40.0	56.4	64.7	56.5	34.4	37.9
A99-116023	49.0	60.3	57.0	42.0	55.9	59.7	48.0	28.7	40.5
A99-116025	50.6	53.1	55.9	36.3	53.9	66.0	62.3	34.4	43.0
A99-116030	48.0	49.0	52.4	40.6	53.7	57.6	56.6	36.2	37.9
A99-116035	48.2	55.9	56.1	40.6	52.8	65.1	51.0	27.6	36.7
A99-116039	48.4	51.4	49.0	36.3	52.9	64.8	51.4	35.0	46.6
A99-217007	44.9	56.0	60.1	15.9	58.4	54.6	45.3	36.4	32.2
A99-217038	49.2	52.7	52.0	47.2	51.5	58.6	58.5	37.4	35.6
C1996	39.4	45.1	46.6	26.0	43.4	50.0	53.2	23.4	27.3
C1999	43.7	43.3	46.3	43.8	49.2	54.6	48.3	30.0	34.5
C2000	41.0	43.5	43.7	38.8	47.1	52.9	46.7	25.5	29.6
M93-316029	45.0	54.4	43.0	30.6	46.6	54.8	58.3	34.4	38.1
M93-318100	44.5	52.6	50.6	29.7	45.7	61.3	54.1	28.8	33.1
M93-326056	46.4	51.0	44.4	46.8	48.7	56.8	57.4	33.4	33.1
M93-330072	48.2	52.7	48.1	43.1	51.3	64.1	60.1	26.7	39.4
M93-330105	47.7	46.9	56.3	36.1	50.8	57.4	62.9	34.2	36.9
M93-350114	44.2	53.4	51.2	27.0	49.5	53.4	51.6	31.1	36.7
M94-115011	48.2	59.8	48.3	42.7	50.8	61.1	56.9	28.7	37.0
M94-161072	46.8	52.3	54.2	25.1	49.1	60.4	57.6	37.7	37.9
M94-162105	49.4	57.1	55.5	45.9	48.8	58.9	61.9	31.4	35.9
M94-209136	47.7	57.6	53.3	30.2	51.0	49.6	67.6	36.5	35.7
M94-275010	47.2	58.8	54.2	39.8	48.4	56.0	58.0	32.1	30.7
M95-106072	44.3	44.6	38.9	38.2	49.2	66.6	48.3	32.2	36.8
M95-138088	45.4	48.7	52.8	29.3	49.0	60.1	58.2	31.9	33.2
OAC 98-12	50.2	51.6	51.1	45.0	48.3	68.0	65.3	37.3	35.4
OAC 99-21	45.3	47.5	49.7	32.8	51.8	49.8	64.3	35.2	31.7
OAC 99-38	42.6	54.0	49.1	22.3	44.8	51.4	56.0	26.4	36.6
OAC 99-54	46.4	46.7	44.1	40.8	47.0	56.2	53.1	43.9	39.1
ORC 9904	49.2	53.3	55.0	49.1	53.4	59.0	61.5	27.8	34.3
ORC 9910	47.6	57.3	52.0	39.5	48.9	49.2	63.2	34.0	36.7
SD96-1236	47.6	52.3	50.9	34.3	50.9	54.3	67.8	33.3	36.9
SD97-412	48.7	50.3	52.8	48.4	47.4	56.5	59.9	31.8	42.9
SD97-556	47.7	41.3	55.2	30.3	49.4	59.1	60.0	33.2	53.4
SD97-575	47.4	49.8	53.0	41.5	50.6	54.5	63.1	31.1	35.8
SD97-1233	49.8	57.5	52.0	41.5	51.4	57.2	67.3	31.0	40.6
SD97-1884	49.0	53.7	52.0	45.0	47.7	55.8	56.1	39.7	41.9
SD97-1973	43.7	43.6	48.4	30.2	49.2	54.0	58.3	26.6	39.3
SD97-2111	47.1	49.0	46.2	38.8	47.9	68.3	59.6	32.6	34.8
SD97-2226	47.2	53.1	51.3	32.5	49.5	65.6	50.0	35.5	40.5
SD97-2676	44.8	50.3	46.0	36.4	42.7	57.2	51.4	36.2	37.9
C.V. (%)		9.7	9.4	9.4	6.9	8.9	8.6	12.1	16.1
L.S.D. (5%)		10.2	9.7	8.7	6.9	6.8	6.8	8.0	12.0
Row Sp. (In.)		27	27	15	10	10	14	30	30
Rows/Plot		4	4	6	4	4	4	4	4
Reps		2	2	2	2	2	3	2	2

PRELIMINARY TEST I, 2000

YIELD RANK

Strain	Yield Rank	Ames IA	Sioux Rapids IA	Ingham County MI	Lamber-ton MN	Waseca MN	Talbot-ville Ont.	Brookings SD	Watertown SD
Parker (I)	26	30	39	15	14	33	5	39	16
IA1008 (SCN)	41	42	15	37	41	33	25	33	45
Lambert (0)	47	39	48	39	49	43	37	21	26
IA2050 (L)(BSR)	1	10	1	21	2	6	4	14	47
A99-115006	9	7	18	26	25	9	23	37	9
A99-115011	8	28	3	29	9	3	19	23	31
A99-116008	5	32	14	28	9	17	12	6	4
A99-116014	16	5	4	45	3	40	20	39	4
A99-116015	13	4	33	25	24	14	14	20	31
A99-116016	2	40	6	3	6	13	22	3	3
A99-116021	3	1	5	19	4	11	34	16	18
A99-116023	14	2	7	12	5	20	48	42	11
A99-116025	4	20	10	31	7	5	11	16	6
A99-116030	22	36	23	18	8	25	33	10	18
A99-116035	19	14	9	17	13	8	44	45	26
A99-116039	18	28	36	32	12	9	43	14	2
A99-217007	39	13	2	50	1	37	50	9	44
A99-217038	11	22	24	4	16	24	24	5	36
C1996	50	45	41	47	48	47	39	50	50
C1999	45	49	42	9	29	37	46	38	39
C2000	49	48	47	24	43	45	49	49	49
M93-316029	38	15	49	38	45	36	26	16	16
M93-318100	42	24	32	43	46	15	38	39	42
M93-326056	34	31	45	5	36	29	31	24	42
M93-330072	19	22	39	10	18	12	16	46	13
M93-330105	23	42	8	33	21	26	10	19	23
M93-350114	44	18	29	46	26	44	41	33	26
M94-115011	19	3	38	11	21	16	32	42	22
M94-161072	33	25	15	48	32	18	30	4	18
M94-162105	10	12	11	6	35	23	13	32	33
M94-209136	23	8	18	41	19	49	2	8	35
M94-275010	30	6	15	20	37	32	29	29	48
M95-106072	43	46	50	27	29	4	47	28	25
M95-138088	34	38	21	44	33	19	28	30	41
OAC 98-12	5	27	30	7	38	2	6	6	37
OAC 99-21	37	40	34	35	15	48	7	13	45
OAC 99-38	48	16	35	49	47	46	36	48	30
OAC 99-54	34	44	46	16	44	31	40	1	15
ORC 9904	11	19	13	1	11	22	15	44	40
ORC 9910	26	10	24	22	34	50	8	21	26
SD96-1236	26	25	31	34	20	41	1	25	23
SD97-412	17	33	21	2	42	30	18	31	7
SD97-556	23	50	12	40	28	21	17	26	1
SD97-575	29	35	20	14	23	39	9	33	34
SD97-1233	7	9	24	13	17	27	3	36	10
SD97-1884	14	17	24	8	40	35	35	2	8
SD97-1973	45	47	37	42	29	42	27	47	14
SD97-2111	32	36	43	23	39	1	21	27	38
SD97-2226	30	20	28	36	26	6	45	12	11
SD97-2676	40	33	44	30	50	27	42	11	18

PRELIMINARY TEST I, 2000

MATURITY (date)

Strain	Mean 7 Tests	Ames IA	Sioux Rapids IA	Ingham County MI	Lamber-ton MN	Waseca MN	Talbot-ville Ont.	Brookings SD	Watertown SD
Parker (I)	09/19	09/06		09/28	09/22	09/22	09/27	09/17	09/15
IA1008 (SCN)	3.1	4		1	4	1	9	-1	5
Lambert (0)	-6.4	-12		1	-4	-8	-10	-8	-4
IA2050 (L)(BSR)	2.4	2		4	1	0	7	-3	7
A99-115006	1.0	2		1	3	0	3	-6	4
A99-115011	2.5	4		4	1	-1	7	-2	5
A99-116008	2.1	3		4	4	2	3	-5	4
A99-116014	4.1	3		3	4	3	8	-2	10
A99-116015	1.3	0		4	-1	0	3	-2	5
A99-116016	3.6	4		5	4	1	8	-2	6
A99-116021	2.8	4		3	3	0	6	0	4
A99-116023	-0.2	-2		2	-1	-3	2	-5	5
A99-116025	3.6	3		5	4	1	9	-1	5
A99-116030	3.2	1		3	4	1	10	-2	6
A99-116035	3.4	2		3	4	0	11	-3	7
A99-116039	0.9	0		3	0	-3	6	-3	4
A99-217007	4.5	5		1	3	1	15	0	7
A99-217038	4.6	4		2	5	2	13	-4	11
C1996	1.5	1		3	3	0	3	-3	4
C1999	5.5	4		9	5	1	15	-1	6
C2000	6.0	5		9	6	2	15	-5	11
M93-316029	-0.9	0		1	-3	-2	-1	-4	3
M93-318100	1	3		1	4	1	6	-6	-1
M93-326056	-4.3	-5		1	-4	-8	-5	-11	2
M93-330072	-2.7	-5		0	-3	-5	-7	-4	5
M93-330105	0.4	3		3	-2	-4	3	-5	6
M93-350114	-3.6	-5		1	-4	-8	-5	-7	3
M94-115011	0.4	-5		1	3	1	5	-5	2
M94-161072	-2.1	-1		1	-4	-5	-6	-3	3
M94-162105	-2.1	-12		1	2	-1	6	-6	-5
M94-209136	-3.4	-8		1	-5	-4	3	-11	0
M94-275010	-2.4	-4		0	-3	-5	-5	-4	4
M95-106072	-3.6	-9		1	-4	-3	-2	-7	-1
M95-138088	-1.1	4		1	-3	-4	-8	-1	4
OAC 98-12	0.4	-7		2	1	2	7	-6	3
OAC 99-21	1.0	-2		3	3	1	-2	-2	6
OAC 99-38	-3.6	-7		2	-4	-5	0	-6	-5
OAC 99-54	-1.5	-8		1	1	-4	4	-6	1
ORC 9904	1.6	-6		5	5	2	12	-5	-2
ORC 9910	-2.5	-12		3	-1	-2	3	-4	-4
SD96-1236	1.7	-1		3	4	1	8	-6	3
SD97-412	2.5	3		3	4	1	4	-2	5
SD97-556	-1.2	1		1	-3	-3	1	-8	3
SD97-575	-2.6	-5		0	-2	-4	2	-6	-4
SD97-1233	0.9	-1		1	0	1	4	-2	3
SD97-1884	-1.6	-3		2	-2	-2	-3	-5	2
SD97-1973	-2.9	-8		2	-2	-4	-1	-4	-3
SD97-2111	-3	-2		1	-3	-3	-2	-7	-3
SD97-2226	-0.3	3		1	-2	-1	4	-7	0
SD97-2676	-4.1	-7		1	-4	-5	-3	-6	-4
Date Planted	05/18	05/01		06/09	05/15	05/26	05/29	05/05	05/15
Days to Mature	124	128		111	130	119	121	135	123

PRELIMINARY TEST I, 2000

LODGING (score)

Strain	Mean 8 Tests	Ames IA	Sioux Rapids IA	Ingham County MI	Lamber-ton MN	Waseca MN	Talbot-ville Ont.	Brookings SD	Watertown SD
Parker (I)	2.4	3.0	2.3	2.5	3.0	2.5	1.8	2.0	2.0
IA1008 (SCN)	1.7	1.5	2.0	1.0	3.0	1.5	1.2	1.0	2.0
Lambert (0)	1.6	1.3	2.0	1.0	3.0	2.0	1.5	1.0	1.0
IA2050 (L)(BSR)	1.7	1.5	2.3	1.5	2.5	1.5	1.2	1.0	2.0
A99-115006	2.0	1.5	2.3	2.0	3.0	2.0	1.2	2.0	2.0
A99-115011	1.6	1.5	2.0	2.0	2.5	1.5	1.5	1.0	1.0
A99-116008	1.7	1.5	2.0	2.0	3.0	2.0	1.0	1.0	1.0
A99-116014	1.6	1.5	1.5	1.0	2.5	2.0	1.0	1.0	2.0
A99-116015	1.7	1.5	2.0	1.5	2.5	1.0	1.0	2.0	2.0
A99-116016	1.8	1.5	2.5	2.5	3.0	1.5	1.5	1.0	1.0
A99-116021	1.5	1.5	2.0	1.5	3.0	1.0	1.0	1.0	1.0
A99-116023	1.9	1.5	2.0	1.5	3.0	1.5	1.8	2.0	2.0
A99-116025	1.8	1.5	2.3	2.0	3.0	2.0	1.5	1.0	1.0
A99-116030	1.4	1.5	1.5	1.0	2.0	1.5	1.0	1.0	2.0
A99-116035	1.5	1.5	2.0	1.5	2.0	1.0	1.0	1.0	2.0
A99-116039	1.9	2.0	2.0	2.0	3.0	2.0	1.2	1.0	2.0
A99-217007	2.0	1.8	2.0	1.5	3.0	2.0	1.5	2.0	2.0
A99-217038	1.7	1.5	1.8	1.5	2.5	2.0	1.3	2.0	1.0
C1996	2.0	1.8	2.3	1.5	3.0	2.5	1.0	2.0	2.0
C1999	2.6	2.0	3.0	3.0	3.0	3.0	3.5	1.0	2.0
C2000	2.4	2.0	3.3	2.5	3.0	2.5	2.8	1.0	2.0
M93-316029	1.5	1.8	2.3	1.0	3.0	1.0	1.2	1.0	1.0
M93-318100	1.9	1.5	2.0	1.0	3.0	2.5	1.5	1.0	3.0
M93-326056	1.6	1.5	2.0	1.5	2.5	1.0	1.0	1.0	2.0
M93-330072	1.7	2.3	2.5	1.5	2.5	1.5	1.0	1.0	1.0
M93-330105	1.7	1.5	1.8	2.0	2.5	1.5	1.2	1.0	2.0
M93-350114	1.7	1.3	2.0	1.0	3.0	1.5	1.0	1.0	3.0
M94-115011	1.9	1.5	1.8	2.0	3.0	2.0	1.3	2.0	2.0
M94-161072	1.7	1.5	2.0	1.5	3.0	1.5	1.2	1.0	2.0
M94-162105	1.5	1.8	1.8	1.5	3.0	1.0	1.0	1.0	1.0
M94-209136	1.6	1.5	2.0	1.5	2.5	1.0	1.2	1.0	2.0
M94-275010	1.8	1.5	1.8	2.0	3.0	1.5	1.3	1.0	2.0
M95-106072	1.8	1.8	2.3	2.0	3.0	2.0	1.2	1.0	1.0
M95-138088	1.8	2.0	2.0	1.5	3.0	1.5	1.0	1.0	2.0
OAC 98-12	2.0	1.5	1.8	2.5	3.0	2.5	1.7	1.0	2.0
OAC 99-21	1.8	1.5	2.0	1.0	3.0	2.5	1.2	1.0	2.0
OAC 99-38	1.8	1.8	2.3	2.0	3.0	1.5	1.2	1.0	2.0
OAC 99-54	2.0	2.3	2.8	2.0	3.0	2.0	1.3	2.0	1.0
ORC 9904	2.0	2.0	2.8	2.0	3.0	2.0	1.2	1.0	2.0
ORC 9910	1.8	1.8	2.5	1.0	2.5	1.5	1.0	2.0	2.0
SD96-1236	1.9	1.8	2.0	2.0	3.0	2.0	2.3	1.0	1.0
SD97-412	2.0	2.3	2.8	2.5	3.0	1.5	2.0	1.0	1.0
SD97-556	1.6	1.8	2.0	1.5	3.0	1.5	1.2	1.0	1.0
SD97-575	2.2	2.0	2.8	2.5	3.0	2.5	1.5	1.0	2.0
SD97-1233	1.8	1.5	2.0	2.0	2.5	2.0	1.7	1.0	2.0
SD97-1884	2.1	2.0	2.5	2.5	3.0	2.0	1.7	2.0	1.0
SD97-1973	1.7	1.5	2.0	1.0	2.5	1.0	1.5	2.0	2.0
SD97-2111	1.6	1.8	2.0	1.5	3.0	1.5	1.0	1.0	1.0
SD97-2226	1.7	1.5	2.0	2.0	3.0	1.5	1.3	1.0	1.0
SD97-2676	1.5	1.0	2.3	1.0	2.5	1.0	1.2	1.0	2.0

PRELIMINARY TEST I, 2000

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Ames IA	Sioux Rapids IA	Ingham County MI	Lamber-ton MN	Waseca MN	Talbot-ville Ont.	Brookings SD	Watertown SD
Parker (I)	36	39	35	33	37	41	40	26	35
IA1008 (SCN)	35	37	37	25	36	38	37	29	44
Lambert (0)	31	31	28	23	30	37	33	24	41
IA2050 (L)(BSR)	33	34	36	27	32	35	35	26	42
A99-115006	33	33	35	26	34	36	36	22	40
A99-115011	34	37	37	26	34	36	37	29	34
A99-116008	34	36	37	25	35	37	36	30	37
A99-116014	33	36	35	25	34	33	40	20	41
A99-116015	32	33	35	27	33	34	35	26	35
A99-116016	33	35	37	29	32	33	35	28	34
A99-116021	33	36	37	29	33	34	36	26	32
A99-116023	33	35	36	28	32	33	36	26	42
A99-116025	33	34	35	27	33	33	36	28	36
A99-116030	33	36	34	28	36	33	38	28	34
A99-116035	32	36	37	28	35	34	32	21	32
A99-116039	34	36	35	27	35	34	36	28	37
A99-217007	32	36	36	19	34	29	36	28	41
A99-217038	34	36	37	33	37	37	39	31	25
C1996	35	37	35	25	38	36	38	32	39
C1999	36	39	39	34	37	40	40	30	29
C2000	38	42	38	36	39	40	45	31	32
M93-316029	31	34	35	23	33	31	33	30	32
M93-318100	35	37	36	23	35	41	39	30	40
M93-326056	33	38	37	30	31	34	36	30	30
M93-330072	34	37	37	26	33	36	36	31	32
M93-330105	31	33	35	23	31	32	37	20	37
M93-350114	33	32	34	23	35	35	32	28	42
M94-115011	31	34	31	25	33	35	37	21	32
M94-161072	32	37	37	23	34	35	38	26	30
M94-162105	34	36	35	34	35	37	37	25	34
M94-209136	32	37	36	30	34	30	34	22	37
M94-275010	36	35	35	30	44	40	42	30	36
M95-106072	32	32	34	28	33	34	34	28	34
M95-138088	32	35	36	24	34	33	35	24	35
OAC 98-12	32	34	34	29	32	36	32	30	32
OAC 99-21	34	34	38	26	36	34	37	30	34
OAC 99-38	32	35	34	22	36	36	36	25	34
OAC 99-54	35	38	37	30	38	34	40	31	36
ORC 9904	33	35	35	29	34	34	34	25	41
ORC 9910	31	34	34	26	32	31	33	25	34
SD96-1236	37	38	36	33	40	38	45	29	37
SD97-412	35	36	37	30	36	37	42	28	36
SD97-556	32	34	36	28	34	35	36	25	28
SD97-575	34	37	36	27	34	33	37	28	42
SD97-1233	33	35	36	29	34	34	41	25	31
SD97-1884	33	36	35	25	33	34	39	30	32
SD97-1973	31	33	34	21	34	32	35	25	33
SD97-2111	31	34	34	25	32	31	35	25	31
SD97-2226	31	35	33	24	34	32	33	27	32
SD97-2676	29	31	32	24	31	28	31	22	32

PRELIMINARY TEST I, 2000

SEED SIZE (g/100)

Strain	Mean 8 Tests	Ames IA	Sioux Rapids IA	Ingham County MI	Lamber-ton MN	Waseca MN	Talbot-ville Ont.	Brookings SD	Watertown SD
Parker (I)	16.2	17.3	16.4	13.9	16.8	20.3	17.9	13.1	13.8
IA1008 (SCN)	17.3	17.3	14.7	14.5	18.7	19.4	22.4	15.4	15.6
Lambert (0)	15.6	15.9	16.0	12.9	16.5	17.3	17.2	14.2	14.4
IA2050 (L)(BSR)	15.6	15.8	16.9	13.2	15.8	17.7	18.4	14.7	12.1
A99-115006	16.5	17.4	16.4	14.4	17.4	18.5	19.4	14.4	14.0
A99-115011	15.7	16.4	16.0	13.4	15.8	17.6	17.8	13.8	14.9
A99-116008	18.7	18.3	18.9	16.7	18.6	21.8	21.8	17.6	15.7
A99-116014	15.9	15.7	15.7	12.8	15.1	18.5	21.7	13.1	15.0
A99-116015	16.3	17.3	16.5	14.2	16.4	18.5	18.9	14.9	13.6
A99-116016	17.6	17.5	18.2	15.9	17.9	19.7	21.2	14.4	16.3
A99-116021	17.1	18.1	17.6	14.4	17.3	18.9	21.1	14.6	15.1
A99-116023	15.3	16.0	16.0	12.6	16.3	17.8	18.3	12.7	12.9
A99-116025	17.2	17.2	17.7	15.4	17.4	20.0	20.4	14.4	15.1
A99-116030	15.9	16.3	16.2	13.3	16.3	17.7	17.9	14.4	15.1
A99-116035	14.2	14.9	14.2	12.4	13.3	15.3	17.3	12.7	13.4
A99-116039	16.6	17.6	15.8	15.0	17.0	18.5	19.9	14.6	14.4
A99-217007	12.4	13.1	12.5	10.3	13.0	14.0	13.5	11.5	11.0
A99-217038	15.4	15.6	15.1	14.4	14.6	17.0	19.9	13.5	13.1
C1996	15.4	15.2	15.0	13.5	16.1	17.4	18.6	13.3	14.3
C1999	15.4	15.7	14.3	14.9	16.6	17.3	19.4	11.8	13.0
C2000	15.7	16.0	15.1	14.1	15.0	19.0	21.5	11.8	13.3
M93-316029	16.5	18.1	17.7	13.6	16.5	18.0	17.1	14.9	16.0
M93-318100	14.9	15.3	15.0	12.9	15.0	16.8	17.4	14.1	12.9
M93-326056	15.3	15.7	14.0	14.1	15.7	16.2	17.4	14.3	15.2
M93-330072	16.5	16.6	16.2	13.6	18.1	19.2	18.7	13.8	15.6
M93-330105	15.7	15.0	15.6	14.1	18.0	15.8	20.4	12.5	13.8
M93-350114	15.4	17.8	17.2	11.2	14.8	16.0	14.7	16.4	15.5
M94-115011	17.0	16.5	16.3	14.6	17.5	19.2	21.9	15.2	15.2
M94-161072	14.9	15.0	15.5	12.8	15.3	16.1	17.2	12.8	14.1
M94-162105	15.7	15.4	15.3	13.7	15.7	18.6	18.3	14.0	14.7
M94-209136	15.7	15.8	17.4	11.7	16.7	16.3	16.3	16.1	14.9
M94-275010	16.8	17.1	17.5	13.9	15.9	18.7	17.9	16.1	17.4
M95-106072	14.2	14.8	13.1	11.3	15.3	16.9	14.8	14.2	13.4
M95-138088	17.2	16.6	17.5	14.4	20.6	20.1	18.6	14.1	16.1
OAC 98-12	17.7	15.3	15.1	16.2	21.5	22.6	23.1	13.7	13.8
OAC 99-21	15.7	15.4	14.9	14.4	16.5	17.9	18.1	14.7	13.8
OAC 99-38	15.2	15.3	14.5	13.6	16.7	17.3	17.9	13.0	13.3
OAC 99-54	16.2	15.8	15.2	13.4	17.5	19.0	19.7	14.5	14.2
ORC 9904	14.9	15.3	14.0	14.0	15.8	17.0	17.8	13.7	12.0
ORC 9910	17.5	18.6	18.6	15.5	17.9	18.6	22.0	14.7	14.0
SD96-1236	15.0	14.3	14.5	13.1	17.4	16.5	19.0	12.6	12.9
SD97-412	15.5	15.1	15.0	14.0	15.2	17.2	20.9	12.0	15.0
SD97-556	16.7	16.5	16.8	13.7	17.3	19.1	18.4	16.2	15.8
SD97-575	16.1	16.6	16.7	13.7	18.3	18.3	17.7	14.0	13.5
SD97-1233	18.3	18.0	16.7	16.2	19.5	21.3	21.9	16.8	16.0
SD97-1884	16.1	16.5	14.8	13.6	16.6	17.9	19.3	15.9	14.0
SD97-1973	14.4	13.3	13.2	12.4	15.6	16.3	18.3	12.4	13.7
SD97-2111	16.3	15.4	16.0	14.7	17.6	18.3	19.4	15.1	14.1
SD97-2226	17.0	17.8	16.6	14.4	18.1	19.3	17.8	15.6	16.2
SD97-2676	15.0	15.1	15.3	12.7	16.0	16.4	15.8	15.0	13.5

PRELIMINARY TEST I, 2000

PROTEIN (%)

Strain	Mean 4 Tests	Ames IA	Sioux Rapids IA	Lamberton MN	Waseca MN
Parker (I)	42.4	42.7	42.5	42.7	41.8
IA1008 (SCN)	42.2	41.2	43.1	42.9	41.7
Lambert (0)	42.4	42.1	43.2	44.0	40.4
IA2050 (L)(BSR)	41.3	39.9	41.8	42.0	41.3
A99-115006	43.5	42.3	45.3	43.5	43.0
A99-115011	41.4	41.3	41.5	41.9	40.8
A99-116008	41.8	40.7	43.2	42.3	40.9
A99-116014	41.6	41.8	42.0	41.8	41.0
A99-116015	41.3	40.6	43.5	42.0	39.1
A99-116016	42.6	42.0	43.8	43.6	40.8
A99-116021	42.9	42.7	43.8	43.4	41.9
A99-116023	42.7	42.6	43.6	42.8	42.0
A99-116025	41.9	41.0	43.2	42.6	40.7
A99-116030	42.4	41.9	44.7	41.6	41.2
A99-116035	42.2	42.2	42.3	43.0	41.2
A99-116039	41.7	41.0	42.7	42.8	40.5
A99-217007	40.7	41.3	40.3	40.8	40.3
A99-217038	42.1	41.6	42.5	42.7	41.4
C1996	46.7	46.5	47.2	47.4	45.7
C1999	46.9	48.0	48.4	46.8	44.5
C2000	46.9	47.0	49.2	45.6	45.8
M93-316029	42.7	43.2	44.4	42.6	40.7
M93-318100	42.7	42.0	41.9	43.8	43.3
M93-326056	41.3	39.6	41.2	43.0	41.5
M93-330072	43.1	42.6	44.1	43.4	42.2
M93-330105	42.6	42.6	42.3	43.4	41.9
M93-350114	43.1	43.6	44.2	42.9	41.6
M94-115011	42.0	42.0	42.1	42.3	41.8
M94-161072	42.7	43.0	44.8	42.3	40.7
M94-162105	41.9	41.6	42.9	42.0	41.2
M94-209136	42.8	43.0	44.6	43.3	40.5
M94-275010	43.9	42.1	44.4	44.8	44.4
M95-106072	42.2	42.6	43.9	42.2	40.3
M95-138088	42.3	42.3	43.6	42.6	40.5
OAC 98-12	42.6	41.1	43.1	44.0	42.2
OAC 99-21	44.2	51.4	42.8	42.0	40.5
OAC 99-38	41.3	41.4	43.5	40.8	39.5
OAC 99-54	43.7	44.3	44.3	44.2	41.8
ORC 9904	42.1	40.9	42.5	41.8	43.3
ORC 9910	42.4	41.5	44.0	43.7	40.2
SD96-1236	41.2	41.4	41.8	41.7	40.1
SD97-412	40.8	41.3	41.3	41.0	39.6
SD97-556	41.1	42.0	41.3	41.3	39.7
SD97-575	42.4	42.9	43.0	42.8	40.9
SD97-1233	40.4	40.9	39.7	41.6	39.3
SD97-1884	41.8	42.2	42.9	42.0	39.9
SD97-1973	41.7	39.6	43.6	43.0	40.6
SD97-2111	42.1	41.8	42.7	42.5	41.5
SD97-2226	40.6	40.7	41.2	40.9	39.6
SD97-2676	42.0	41.9	42.9	42.6	40.6

PRELIMINARY TEST I, 2000

OIL (%)

Strain	Mean 4 Tests	Ames IA	Sioux Rapids IA	Lamberton MN	Waseca MN
Parker (I)	19.6	19.8	19.7	19.2	19.6
IA1008 (SCN)	19.1	19.6	18.8	18.5	19.4
Lambert (0)	20.5	20.7	20.3	19.3	21.6
IA2050 (L)(BSR)	19.4	19.6	19.4	19.0	19.8
A99-115006	18.5	19.2	17.9	18.3	18.8
A99-115011	19.7	20.2	19.8	19.2	19.7
A99-116008	20.1	20.3	20.1	19.8	20.2
A99-116014	19.8	20.0	19.7	19.7	20.0
A99-116015	20.0	20.6	19.2	19.3	20.8
A99-116016	19.9	20.3	19.4	19.3	20.4
A99-116021	19.8	20.0	19.8	19.3	19.9
A99-116023	19.4	19.5	18.9	19.3	20.1
A99-116025	19.8	20.5	19.4	19.4	20.1
A99-116030	19.2	19.5	18.5	19.2	19.8
A99-116035	19.6	19.8	19.3	19.1	20.1
A99-116039	19.3	19.6	18.8	18.9	19.8
A99-217007	19.5	19.6	19.0	19.0	20.5
A99-217038	19.7	19.8	19.6	19.3	19.9
C1996	17.2	17.5	17.1	16.4	17.7
C1999	16.6	16.6	16.2	16.5	17.2
C2000	16.8	16.5	16.1	17.3	17.4
M93-316029	20.5	20.2	20.0	20.2	21.5
M93-318100	19.9	19.9	20.0	19.7	20.1
M93-326056	19.4	20.3	18.9	18.8	19.5
M93-330072	19.3	19.1	18.8	19.4	19.9
M93-330105	19.2	19.1	19.3	18.8	19.7
M93-350114	18.9	18.1	17.9	19.3	20.2
M94-115011	20.7	21.5	21.5	19.8	19.9
M94-161072	19.9	20.5	19.8	19.2	20.2
M94-162105	19.3	19.1	19.0	19.3	19.7
M94-209136	19.4	19.7	19.3	18.7	20.0
M94-275010	18.6	19.0	18.7	18.3	18.6
M95-106072	19.4	19.0	18.7	19.7	20.1
M95-138088	19.9	19.8	19.6	19.8	20.5
OAC 98-12	20.3	20.3	19.9	20.1	20.7
OAC 99-21	19.7	19.4	19.2	19.7	20.6
OAC 99-38	19.3	19.4	18.9	18.9	20.1
OAC 99-54	18.7	18.4	18.5	18.1	19.6
ORC 9904	19.5	20.5	20.0	18.7	18.9
ORC 9910	19.5	20.2	19.7	18.1	20.0
SD96-1236	19.7	19.7	19.7	19.4	20.0
SD97-412	19.9	19.8	19.9	19.5	20.4
SD97-556	19.8	19.4	20.1	19.3	20.2
SD97-575	19.4	19.5	19.2	19.0	19.8
SD97-1233	19.6	19.4	19.5	19.4	20.3
SD97-1884	19.4	19.4	19.2	19.0	20.1
SD97-1973	19.7	20.1	19.3	19.2	20.3
SD97-2111	18.9	18.9	18.8	18.7	19.0
SD97-2226	19.2	19.3	19.1	19.2	19.3
SD97-2676	20.2	20.9	19.9	19.6	20.4

Uniform Test II, 2000

	Strain	Parentage	Previous Testing	Generation Composited	Unique Traits
1.	IA2021 (II)	Elgin 87 x Marcus	6	F5	
2.	IA2050 (I)	Northrup King 24-92 x A91-501002	UT I	F5	BSR
3.	IA2036 (SCN)	Jack x A86-301024	4	F5	SCN
4.	IA2052 (L)	Northrup King S24-92 x Parker	2	F5	
5.	A98-883023	Northrup King S24-92 x Pioneer P9281	PT I	F5	
6.	A98-884037	A93-552034 x Pioneer P9281	PT IIA	F5	
7.	C1979	IA3003 x Stressland	PT IIB	F5	
8.	E95505	Felix x Northrup King S19-90	2	F5	
9.	HS96-3332	Parker x HS90-37100	1	F5	
10.	HS97-4544	Pioneer P9268-003 x Vertex	PT IIB	F6	Rps PI92718-2
11.	LN94-14862-97-2	Jack x Hartwig	SCN UT II	F5	SCN
12.	M92-191023	M88-504 x Kenwood	PT IIB	F5	Rps1k
13.	ORC 9808	Pioneer 9273 x RCAT Calico	PT IIB	F5	
14.	SD96-170	IA2008 x HS88-4909	1	F5	
15.	SD96-190	IA2008 x HS88-4909	PT IIA	F5	
16.	SD96-203	IA2008 x HS88-4909	PT IIA	F5	
17.	SD96-1043	M87-1329 x Ozzie	1	F5	
18.	SD96-1960	Hardin 91 x Asgrow A1662	PT IIA	F5	
19.	U97-2104	MSBP3F6	1	F7	
20.	U97-2406	U91-2527 x UP1C2-72	1	F6	
21.	U97-201201	U94-3412 x UP1Fe-95-9	PT IIB	F5	
22.	U97-207134	MSBP4F6	PT IIB	F7	

UNIFORM TEST II, 2000

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Hum-boldt	Chlorosis Score Waseca	Emerg. Score Ames	Shattering Score Manhattan	Greenstem Score Arlington	PR Laf. Race 7	PS Lafayette a %	P&SB Lafayette n %
IA2021 (II)	WTBSYBIIep	4.0	4.3	4.0	1.0	1.8	R	20	4
IA2050 (I)	PTBSYBIIEp	4.0	4.7	2.0	3.0	1.5	R	4	2
IA2036 (SCN)	PGBDYBflep	3.0	4.8	1.0	2.0	1.0	R	28	0
IA2052 (L)	WGBDYBflEp	3.0	4.8	1.0	1.0	2.5	H	46	2
A98-883023	PTBDYBIIEp	4.0	4.2	1.0	2.0	1.3	S	10	2
A98-884037	PTBDYBIIEp	4.0	4.5	3.0	2.0	2.3	R	36	4
C1979	PTBDYBIIep	4.0	4.7	1.0	3.0	1.3	S	32	0
E95505	PGBDYGrIEp	3.0	4.5	3.0	1.0	2.0	R	2	6
HS96-3332	PGBDYBrIEp	4.0	4.5	2.0	2.0	2.3	R	10	6
HS97-4544	PT+GBDYBflH	4.0	4.7	2.0	2.0	1.3	R	14	4
LN94-14862-97-2	WGBDYYIEp	4.0	4.8	2.0	1.0	2.5	R	32	10
M92-191023	PTBDYBIIH	4.0	4.7	3.0	1.0	1.3	R	12	20
ORC 9808	PGBDYIbIEp	4.0	4.5	2.0	1.0	3.5	S	24	12
SD96-170	PGBDYBflEp	4.0	4.5	1.0	1.0	2.3	R	14	10
SD96-190	PGBDYBflEp	4.0	4.3	4.0	2.0	2.8	R	16	6
SD96-203	WGTDYBflEp	3.0	4.2	2.0	2.0	4.5	R	6	6
SD96-1043	PGTDYBflEp	3.0	4.5	5.0	1.0	0.5	H	38	0
SD96-1960	PGBDYBflH	4.0	4.5	3.0	2.0	2.0	R	8	6
U97-2104	WGBDYBflEp	4.0	4.5	2.0	2.0	2.0	R	16	4
U97-2406	PGBDYBIIH	3.0	4.3	5.0	1.0	3.5	S	16	24
U97-201201	PGB+TDYBIIH	2.0	4.2	4.0	1.0	1.8	S	8	6
U97-207134	WTBDYIblep	4.0	4.7	2.0	2.0	3.8	R	48	2

UNIFORM TEST II, 2000

SDS DATA

Strain	SDS	
	Bloomington DX	Pontiac DX
IA2021 (II)	0.1	0.0
IA2050 (I)	0.0	0.2
IA2036 (SCN)	0.1	0.2
IA2052 (L)	0.5	0.4
A98-883023	0.1	0.7
A98-884037	1.0	0.4
C1979	0.4	0.4
E95505	0.1	0.2
HS96-3332	0.0	0.9
HS97-4544	0.5	0.2
LN94-14862-97-2	0.0	0.0
M92-191023	0.1	0.1
ORC 9808	7.3	1.5
SD96-170	0.8	0.2
SD96-190	0.1	0.3
SD96-203	0.1	0.3
SD96-1043	0.1	0.2
SD96-1960	0.0	0.2
U97-2104	2.4	1.0
U97-2406	0.1	1.0
U97-201201	0.0	0.0
U97-207134	0.0	0.4

UNIFORM TEST II, 2000

REGIONAL SUMMARY

No. of Tests Strain	Yield 20 bu/a	Rank 20 No.	Maturity 19 Date	Lodging 20 Score	Plant Height 19 In.	Seed Size 20 g/100	Composition Protein 5 %	 Oil 5 %
IA2021 (II)	53.1	5	9/14	1.8	29	15.7	40.1	20.5
IA2050 (I)	52.8	7	-0.8	1.5	29	15.5	41.4	19.5
IA2036 (SCN)	47.5	20	0.4	2.3	35	13.7	42.4	18.3
IA2052 (L)	54.7	1	2.2	1.7	34	13.9	42.1	19.7
A98-883023	53.0	6	0.1	1.7	30	14.1	41.7	19.8
A98-884037	53.6	3	3.3	1.8	33	16.8	41.8	19.7
C1979	51.3	10	4.1	1.9	32	13.0	43.1	19.3
E95505	45.7	22	-1.1	1.4	30	14.2	39.5	19.3
HS96-3332	51.3	10	5.5	2.0	36	14.7	40.9	19.7
HS97-4544	52.6	8	4.4	2.0	35	16.0	41.3	19.8
LN94-14862-97-2	48.1	18	5.2	2.1	37	11.1	41.5	19.1
M92-191023	48.2	17	-0.8	2.1	34	15.8	41.3	19.3
ORC 9808	50.3	14	4.0	1.1	31	14.5	41.9	19.3
SD96-170	51.7	9	3.9	2.1	33	16.6	41.7	19.3
SD96-190	48.0	19	1.6	1.9	37	14.1	41.1	19.9
SD96-203	50.8	12	1.6	2.0	34	16.1	40.7	19.3
SD96-1043	46.0	21	-1.1	1.6	31	16.8	42.2	20.3
SD96-1960	49.7	16	0.9	1.8	27	16.8	42.7	19.5
U97-2104	53.5	4	3.7	1.3	29	14.7	41.5	19.2
U97-2406	50.6	13	5.5	1.9	36	16.2	41.2	19.6
U97-201201	50.2	15	3.0	1.8	33	15.9	40.7	19.6
U97-207134	54.4	2	5.9	2.0	34	15.3	41.3	19.5

124.0 Days After Planting

UNIFORM TEST II, 2000

1999-2000 2-YEAR MEAN

No. of Tests Strain	Yield 42 bu/a	Rank 42 No.	Maturity 37 Date	Lodging 41 Score	Plant Height 40 In.	Seed Size 41 g/100	Composition Protein 10 %	 Oil 10 %
IA2021	53.3	4	9/16	1.7	29	15.8	39.7	20.9
IA2036	49.0	9	1.2	2.2	37	14.1	41.6	18.6
IA2052	56.6	1	2.8	1.7	36	14.3	41.6	20.0
E95505	50.3	7	-1.5	1.4	31	14.7	39.3	19.7
HS96-3332	54.0	3	5.0	2.0	37	15.0	40.0	19.9
SD96-170	52.9	5	4.0	1.9	34	16.6	40.5	19.8
SD96-1043	49.2	8	-0.3	1.9	33	16.0	41.3	20.3
U97-2104	54.5	2	3.5	1.3	30	14.9	40.7	19.6
U97-2406	52.6	6	3.9	1.9	36	16.7	40.8	20.1

124.5 Days After Planting

UNIFORM TEST II, 2000

YIELD (bu/a)

Strain	Mean 20 Tests	Ames IA	Rippey IA	Dekalb IL	Dwight IL	Urbana IL
IA2021 (II)	53.1	59.0	31.2	66.0	59.2	56.4
IA2050 (I)	52.8	60.4	46.3	70.8	61.3	51.0
IA2036 (SCN)	47.5	47.3	34.9	60.9	49.7	53.4
IA2052 (L)	54.7	60.3	39.8	62.4	67.4	59.9
A98-883023	53.0	57.8	44.1	67.5	67.7	57.6
A98-884037	53.6	61.4	48.3	62.9	69.1	62.4
C1979	51.3	53.9	37.2	62.4	61.9	62.6
E95505	45.7	52.4	35.1	60.1	51.5	56.7
HS96-3332	51.3	46.3	40.6	65.5	63.0	61.7
HS97-4544	52.6	58.3	44.6	59.3	63.7	56.2
LN94-14862-97-2	48.1	42.3	34.1	60.6	61.7	62.0
M92-191023	48.2	52.9	40.8	54.4	60.1	44.6
ORC 9808	50.3	58.8	43.4	63.9	61.9	54.5
SD96-170	51.7	53.1	40.0	60.3	67.9	57.7
SD96-190	48.0	60.1	34.0	61.5	48.3	52.7
SD96-203	50.8	55.4	41.5	52.2	61.9	59.0
SD96-1043	46.0	48.0	32.6	56.4	51.1	51.2
SD96-1960	49.7	54.1	40.6	60.1	58.2	52.4
U97-2104	53.5	60.5	46.1	67.4	67.6	54.2
U97-2406	50.6	50.2	44.0	61.3	63.2	54.6
U97-201201	50.2	52.9	46.7	60.1	62.2	51.3
U97-207134	54.4	61.7	45.6	62.7	62.5	62.9
C.V. (%)		10.2	12.7	8.6	7.2	11.1
L.S.D. (5%)		11.6	10.7	8.7	7.2	10.2
Row Sp. (In.)		27	27	30	30	30
Rows/Plot		4	4	4	4	4
Reps		2	2	3	3	3

UNIFORM TEST II, 2000

YIELD (bu/a)

Strain	Lafayette IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2021 (II)	40.6	45.0	41.5	43.0	69.3
IA2050 (I)	43.5	43.3	28.5	46.5	68.9
IA2036 (SCN)	44.1	28.6	19.6	49.5	63.7
IA2052 (L)	47.7	28.1	46.6	50.5	71.7
A98-883023	45.0	40.5	26.1	50.4	69.6
A98-884037	48.0	28.6	30.4	45.6	72.8
C1979	45.9	38.1	55.0	45.0	66.9
E95505	39.3	33.9	24.4	44.3	61.8
HS96-3332	45.7	47.6	30.3	38.2	65.1
HS97-4544	46.2	41.6	44.5	37.1	65.6
LN94-14862-97-2	43.6	40.7	25.8	39.4	68.4
M92-191023	39.4	35.2	21.7	47.4	69.8
ORC 9808	47.5	21.0	34.1	41.4	60.0
SD96-170	45.8	47.1	25.0	42.6	77.0
SD96-190	43.3	28.7	27.6	48.9	70.2
SD96-203	44.9	11.8	55.3	47.1	70.1
SD96-1043	34.8	27.4	20.9	47.8	67.9
SD96-1960	42.5	43.3	24.2	42.9	64.3
U97-2104	44.2	33.4	29.9	45.3	69.9
U97-2406	45.0	41.5	23.8	38.5	68.6
U97-201201	41.4	39.7	24.7	43.6	67.9
U97-207134	52.3	43.4	59.7	46.4	66.3
C.V. (%)	7.1	7.6	5.5	8.8	9.4
L.S.D. (5%)	5.1	8.0	5.8	6.5	10.6
Row Sp. (In.)	24	15	15	10	10
Rows/Plot	4	6	6	10	10
Reps	3	2	2	3	3

UNIFORM TEST II, 2000

YIELD (bu/a)

Strain	Beemer NE	Cotesfield NE	Goehner NE	Hoytville OH
IA2021 (II)	51.8	65.5	59.3	42.9
IA2050 (I)	54.0	49.9	67.0	34.0
IA2036 (SCN)	45.6	51.1	50.2	37.8
IA2052 (L)	51.2	60.3	69.5	47.8
A98-883023	51.7	59.7	60.4	43.4
A98-884037	51.4	60.2	64.9	40.3
C1979	48.9	49.5	60.7	37.7
E95505	52.3	46.9	47.7	33.9
HS96-3332	51.7	54.9	60.8	51.4
HS97-4544	49.9	59.2	65.7	47.0
LN94-14862-97-2	48.4	54.4	55.0	43.8
M92-191023	49.8	49.0	57.0	41.2
ORC 9808	52.1	54.1	58.3	37.7
SD96-170	52.9	52.4	62.3	48.1
SD96-190	46.1	50.3	56.8	29.0
SD96-203	49.9	48.1	56.4	42.3
SD96-1043	46.9	53.8	55.1	23.9
SD96-1960	52.1	54.8	57.1	37.7
U97-2104	57.3	60.3	64.0	42.0
U97-2406	47.0	54.8	59.7	40.5
U97-201201	50.0	52.6	60.3	37.9
U97-207134	49.3	54.1	56.4	43.9
C.V. (%)	6.1	7.5	7.8	13.3
L.S.D. (5%)	6.2	8.2	9.4	7.5
Row Sp. (In.)	30	30	30	8
Rows/Plot	4	4	4	8
Reps	3	3	3	3

UNIFORM TEST II, 2000

YIELD (bu/a)

Strain	Wooster OH	Chatham Ont.	Harrow Ont.	Beresford SD	Brookings SD	Arlington WI
IA2021 (II)	39.1	64.9	80.0	51.0	33.1	62.3
IA2050 (I)	44.0	72.5	73.0	46.8	36.3	58.3
IA2036 (SCN)	38.9	60.6	73.6	47.4	31.3	62.8
IA2052 (L)	49.8	59.7	66.9	54.6	37.3	62.4
A98-883023	39.9	66.3	69.5	46.0	34.1	61.9
A98-884037	47.2	57.3	78.7	46.6	32.5	64.1
C1979	41.3	55.5	63.7	50.2	33.9	55.9
E95505	29.3	71.7	38.0	49.4	28.1	57.0
HS96-3332	49.4	61.3	61.5	42.6	31.2	56.9
HS97-4544	44.4	57.5	71.2	51.0	31.5	57.0
LN94-14862-97-2	40.2	53.4	61.1	42.6	29.8	54.7
M92-191023	36.1	59.4	71.3	46.2	29.0	58.4
ORC 9808	45.1	63.5	67.3	46.6	36.2	58.2
SD96-170	44.3	43.4	72.4	48.4	34.9	58.8
SD96-190	38.2	55.6	78.0	42.7	34.4	53.9
SD96-203	42.9	52.7	82.3	45.9	33.8	61.8
SD96-1043	33.7	61.7	67.5	49.6	33.9	55.6
SD96-1960	38.6	61.9	66.1	50.4	36.6	57.3
U97-2104	50.5	65.2	73.7	49.7	29.8	59.0
U97-2406	53.1	52.8	71.9	45.7	32.2	64.0
U97-201201	42.8	55.4	74.5	49.6	30.9	58.9
U97-207134	43.9	65.7	76.3	44.2	31.4	59.3
C.V. (%)	7.3	12.9	10.9	7.4	10.8	5.6
L.S.D. (5%)	4.4	10.6	10.4	5.8	5.8	3.0
Row Sp. (In.)	8	17	18	30	30	15
Rows/Plot	8	5	5	4	4	6
Reps	3	3	3	3	3	4

UNIFORM TEST II, 2000

YIELD RANK

Strain	Yield Rank	Ames IA	Rippey IA	Dekalb IL	Dwight IL	Urbana IL
IA2021 (II)	5	7	22	4	17	11
IA2050 (I)	7	4	3	1	15	21
IA2036 (SCN)	20	20	18	13	21	16
IA2052 (L)	1	5	15	9	5	6
A98-883023	6	10	7	2	3	9
A98-884037	3	2	1	7	1	3
C1979	10	13	16	9	11	2
E95505	22	17	17	16	19	10
HS96-3332	10	21	12	5	8	5
HS97-4544	8	9	6	19	6	12
LN94-14862-97-2	18	22	19	14	14	4
M92-191023	17	15	11	21	16	22
ORC 9808	14	8	9	6	11	14
SD96-170	9	14	14	15	2	8
SD96-190	19	6	20	11	22	17
SD96-203	12	11	10	22	11	7
SD96-1043	21	19	21	20	20	20
SD96-1960	16	12	12	16	18	18
U97-2104	4	3	4	3	4	15
U97-2406	13	18	8	12	7	13
U97-201201	15	15	2	16	10	19
U97-207134	2	1	5	8	9	1

UNIFORM TEST II, 2000

YIELD RANK

Strain	Lafayette IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2021 (II)	19	3	6	15	9
IA2050 (I)	15	5	11	8	10
IA2036 (SCN)	13	17	22	3	20
IA2052 (L)	3	19	4	1	3
A98-883023	9	10	13	2	8
A98-884037	2	18	8	10	2
C1979	6	12	3	12	15
E95505	21	14	17	13	21
HS96-3332	8	1	9	21	18
HS97-4544	5	7	5	22	17
LN94-14862-97-2	14	9	14	19	12
M92-191023	20	13	20	6	7
ORC 9808	4	21	7	18	22
SD96-170	7	2	15	17	1
SD96-190	16	16	12	4	4
SD96-203	11	22	2	7	5
SD96-1043	22	20	21	5	13
SD96-1960	17	6	18	16	19
U97-2104	12	15	10	11	6
U97-2406	9	8	19	20	11
U97-201201	18	11	16	14	13
U97-207134	1	4	1	9	16

UNIFORM TEST II, 2000

YIELD RANK

Strain	Beemer NE	Hartington NE	Goehner NE	Hoytville OH
IA2021 (II)	7	1	12	8
IA2050 (I)	2	18	2	19
IA2036 (SCN)	22	16	21	15
IA2052 (L)	11	2	1	3
A98-883023	8	5	9	7
A98-884037	10	4	4	13
C1979	17	19	8	16
E95505	4	22	22	20
HS96-3332	9	7	7	1
HS97-4544	13	6	3	4
LN94-14862-97-2	18	10	20	6
M92-191023	15	20	15	11
ORC 9808	6	11	13	16
SD96-170	3	15	6	2
SD96-190	21	17	16	21
SD96-203	14	21	18	9
SD96-1043	20	13	19	22
SD96-1960	5	8	14	16
U97-2104	1	3	5	10
U97-2406	19	9	11	12
U97-201201	12	14	10	14
U97-207134	16	12	17	5

UNIFORM TEST II, 2000

YIELD RANK

Strain	Wooster OH	Chatham Ont.	Harrow Ont.	Beresford SD	Brookings SD	Arlington WI
IA2021 (II)	16	6	2	3	11	5
IA2050 (I)	9	1	9	12	3	14
IA2036 (SCN)	17	11	8	11	16	3
IA2052 (L)	3	12	17	1	1	4
A98-883023	15	3	14	16	7	6
A98-884037	5	15	3	13	12	1
C1979	13	17	19	5	8	20
E95505	22	2	22	9	22	17
HS96-3332	4	10	20	21	17	19
HS97-4544	7	14	13	2	14	17
LN94-14862-97-2	14	19	21	21	19	22
M92-191023	20	13	12	15	21	13
ORC 9808	6	7	16	13	4	15
SD96-170	8	22	10	10	5	12
SD96-190	19	16	4	20	6	23
SD96-203	11	21	1	17	10	7
SD96-1043	21	9	15	7	8	21
SD96-1960	18	8	18	4	2	16
U97-2104	2	5	7	6	19	9
U97-2406	1	20	11	18	13	2
U97-201201	12	18	6	7	18	10
U97-207134	10	4	5	19	15	8

UNIFORM TEST II, 2000

MATURITY (date)

Strain	Mean 19 Tests	Ames IA	Rippey IA	Dekalb IL	Dwight IL	Urbana IL
IA2021 (II)	09/14	09/09		09/18	09/06	08/26
IA2050 (I)	-0.8	-3		1	-2	-0
IA2036 (SCN)	0.4	0		3	-1	-0
IA2052 (L)	2.2	6		1	2	5
A98-883023	0.1	2		0	-1	2
A98-884037	3.3	3		2	2	8
C1979	4.1	5		5	4	5
E95505	-1.1	-2		0	-1	-4
HS96-3332	5.5	9		4	5	6
HS97-4544	4.4	3		2	3	4
LN94-14862-97-2	5.2	7		6	5	4
M92-191023	-0.8	0		1	1	2
ORC 9808	4.0	4		2	3	10
SD96-170	3.9	6		4	4	4
SD96-190	1.6	3		3	0	-0
SD96-203	1.6	1		3	1	1
SD96-1043	-1.1	-4		0	-2	-2
SD96-1960	0.9	0		1	-2	-0
U97-2104	3.7	4		5	4	8
U97-2406	5.5	5		6	4	6
U97-201201	3.0	4		2	3	4
U97-207134	5.9	4		7	4	8
Date Planted	05/13	05/01		05/16	05/08	04/28
Days to Mature	124	131		125	121	120

UNIFORM TEST II, 2000

MATURITY (date)

Strain	Lafayette IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2021 (II)	09/01	10/02	09/18	09/29	09/18
IA2050 (I)	2	-1	-10	-1	-2
IA2036 (SCN)	2	0	-8	0	0
IA2052 (L)	4	-16	2	0	3
A98-883023	2	0	-9	0	-1
A98-884037	5	0	-10	1	2
C1979	6	7	5	1	3
E95505	-1	-3	-11	0	-1
HS96-3332	7	3	-6	1	5
HS97-4544	5	5	5	2	3
LN94-14862-97-2	9	4	-5	2	4
M92-191023	0	-2	-10	0	-1
ORC 9808	4	0	3	1	5
SD96-170	6	5	-7	2	3
SD96-190	3	-2	-8	0	3
SD96-203	1	-15	4	1	2
SD96-1043	0	-3	-10	1	0
SD96-1960	0	2	-9	-1	2
U97-2104	5	2	-8	0	4
U97-2406	4	3	-7	3	4
U97-201201	4	2	-7	1	3
U97-207134	6	6	6	1	4
Date Planted	05/05	06/09	05/15	05/22	05/05
Days to Mature	119	115	126	130	136

UNIFORM TEST II, 2000

MATURITY (date)

Strain	Beemer NE	Hartington NE	Goehner NE	Hoytville OH
IA2021 (II)	09/16	09/16	09/09	09/18
IA2050 (I)	0	2	1	-1
IA2036 (SCN)	0	3	3	-2
IA2052 (L)	1	4	4	1
A98-883023	-1	-4	1	-1
A98-884037	3	9	11	2
C1979	2	3	3	1
E95505	-2	1	0	-2
HS96-3332	3	10	11	6
HS97-4544	3	6	7	1
LN94-14862-97-2	3	9	8	3
M92-191023	-3	-4	0	-2
ORC 9808	2	4	4	2
SD96-170	3	7	9	0
SD96-190	0	1	6	-1
SD96-203	-1	0	2	0
SD96-1043	-1	-2	0	0
SD96-1960	2	5	4	-1
U97-2104	3	4	5	3
U97-2406	4	12	11	2
U97-201201	0	3	4	-1
U97-207134	5	12	8	-3
Date Planted	05/11	05/18	05/24	05/16
Days to Mature	128	121	108	125

UNIFORM TEST II, 2000

MATURITY (date)

Strain	Wooster OH	Chatham Ont.	Harrow Ont.	Beresford SD	Brookings SD	Arlington WI
IA2021 (II)	09/04	09/21	10/01	08/29	09/15	09/22
IA2050 (I)	-2	1	-1	0	3	-1
IA2036 (SCN)	-1	5	1	0	2	1
IA2052 (L)	2	7	0	3	4	9
A98-883023	1	4	0	0	5	2
A98-884037	3	7	0	5	2	8
C1979	7	9	1	2	3	7
E95505	-1	1	-2	0	1	6
HS96-3332	7	10	1	5	7	12
HS97-4544	7	8	0	5	3	11
LN94-14862-97-2	8	9	2	2	8	12
M92-191023	-1	4	-1	-1	1	0
ORC 9808	5	6	0	6	6	9
SD96-170	4	9	1	2	2	11
SD96-190	-1	9	0	3	1	11
SD96-203	2	9	0	3	6	11
SD96-1043	-1	1	0	0	1	0
SD96-1960	-1	4	0	4	3	4
U97-2104	5	7	1	4	5	10
U97-2406	7	11	2	11	5	11
U97-201201	6	9	1	4	6	11
U97-207134	7	11	5	7	3	12
Date Planted	04/26	05/29	06/05	05/09	05/05	05/03
Days to Mature	131	115	118	112	133	142

UNIFORM TEST II, 2000

LODGING (score)

Strain	Mean 20 Tests	Ames IA	Rippey IA	Dekalb IL	Dwight IL	Urbana IL
IA2021 (II)	1.8	1.5	1.3	1.8	1.8	1.0
IA2050 (I)	1.5	1.5	1.3	1.5	1.5	1.0
IA2036 (SCN)	2.3	2.8	1.8	2.5	3.2	1.8
IA2052 (L)	1.7	1.5	1.5	1.7	1.7	1.0
A98-883023	1.7	1.5	1.0	1.7	1.8	1.0
A98-884037	1.8	2.0	1.5	1.7	1.5	1.2
C1979	1.9	1.5	1.3	2.3	1.8	1.3
E95505	1.4	1.3	1.0	1.3	1.2	1.0
HS96-3332	2.0	2.0	1.5	2.3	2.2	1.2
HS97-4544	2.0	2.0	1.5	1.8	1.8	1.3
LN94-14862-97-2	2.1	2.0	1.5	2.0	2.8	1.7
M92-191023	2.1	2.0	1.8	2.8	3.2	1.2
ORC 9808	1.1	1.0	1.0	1.0	1.0	1.0
SD96-170	2.1	1.8	1.5	3.2	2.0	1.2
SD96-190	1.9	1.5	1.0	2.8	2.0	1.2
SD96-203	2.0	1.8	1.5	2.2	2.2	1.2
SD96-1043	1.6	1.8	1.3	2.0	1.7	1.0
SD96-1960	1.8	1.5	1.5	1.7	1.2	1.0
U97-2104	1.3	1.3	1.5	1.0	1.3	1.0
U97-2406	1.9	2.0	1.8	2.5	2.5	1.0
U97-201201	1.8	1.5	1.5	1.8	1.7	1.0
U97-207134	2.0	1.5	1.3	2.2	2.0	1.2

UNIFORM TEST II, 2000

LODGING (score)

Strain	Lafayette IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2021 (II)	1.2	2.5	1.5	3.3	1.3
IA2050 (I)	1.0	1.0	0.5	3.0	1.0
IA2036 (SCN)	2.2	2.0	1.0	4.0	1.7
IA2052 (L)	1.0	1.0	1.5	3.0	2.0
A98-883023	1.0	2.0	1.0	3.7	1.0
A98-884037	1.0	1.5	1.5	3.7	1.7
C1979	1.0	2.0	2.5	3.7	1.7
E95505	1.0	1.0	0.5	2.7	1.3
HS96-3332	1.5	2.5	1.5	4.0	1.7
HS97-4544	1.7	1.5	2.0	4.0	2.0
LN94-14862-97-2	1.5	2.5	1.5	4.0	2.3
M92-191023	1.8	2.0	1.5	3.7	2.0
ORC 9808	1.0	1.0	1.0	2.0	1.0
SD96-170	1.0	3.0	1.0	3.7	2.0
SD96-190	1.0	2.0	1.5	3.7	2.0
SD96-203	1.2	0.5	2.5	3.7	2.3
SD96-1043	1.0	1.0	1.0	3.7	1.3
SD96-1960	1.0	2.0	1.0	3.7	2.0
U97-2104	1.0	2.0	0.5	2.7	1.0
U97-2406	1.3	2.0	1.0	4.0	2.3
U97-201201	1.0	2.0	0.5	3.3	2.3
U97-207134	1.0	1.0	2.5	4.0	2.0

UNIFORM TEST II, 2000

LODGING (score)

Strain	Beemer NE	Hartington NE	Goehner NE	Hoytville OH
IA2021 (II)	1.0	2.0	1.7	1.2
IA2050 (I)	1.0	2.0	1.3	1.2
IA2036 (SCN)	1.0	4.0	2.3	1.4
IA2052 (L)	1.0	2.7	1.3	1.3
A98-883023	1.0	1.7	1.3	1.2
A98-884037	1.0	2.3	1.7	1.3
C1979	1.0	2.0	1.7	1.4
E95505	1.0	2.7	1.0	1.2
HS96-3332	1.0	3.3	1.7	1.3
HS97-4544	1.0	3.0	2.0	1.3
LN94-14862-97-2	1.0	3.0	2.7	1.5
M92-191023	1.0	2.3	2.0	1.3
ORC 9808	1.0	2.0	1.0	1.2
SD96-170	1.0	2.7	2.0	1.3
SD96-190	1.0	2.7	2.0	1.3
SD96-203	1.0	2.7	2.0	1.3
SD96-1043	1.0	2.3	2.0	1.3
SD96-1960	1.0	2.0	2.0	1.2
U97-2104	1.0	1.7	1.0	1.3
U97-2406	1.0	3.0	1.7	1.3
U97-201201	1.0	2.3	1.3	1.3
U97-207134	1.0	3.0	1.7	1.3

UNIFORM TEST II, 2000

LODGING (score)

Strain	Wooster OH	Chatham Ont.	Harrow Ont.	Beresford SD	Brookings SD	Arlington WI
IA2021 (II)	1.5	2.3	1.7	2.0	2.0	2.8
IA2050 (I)	1.3	2.3	1.3	1.0	2.0	2.5
IA2036 (SCN)	1.7	3.3	2.0	2.0	2.0	2.5
IA2052 (L)	1.7	2.7	1.3	1.0	2.0	2.8
A98-883023	1.7	3.0	1.3	2.0	2.0	3.0
A98-884037	1.7	3.0	1.3	2.0	2.0	2.3
C1979	1.7	3.3	1.7	2.0	2.0	2.8
E95505	1.2	1.7	1.0	1.0	1.0	3.0
HS96-3332	1.8	3.0	1.3	2.0	2.0	2.5
HS97-4544	1.7	3.0	2.0	2.0	2.0	2.8
LN94-14862-97-2	1.7	3.0	2.0	2.0	1.0	2.8
M92-191023	1.8	3.3	2.0	2.0	1.0	3.3
ORC 9808	1.3	1.0	1.0	1.0	1.0	1.0
SD96-170	1.8	3.0	1.7	2.0	2.0	3.5
SD96-190	1.9	3.3	2.0	2.0	1.0	3.0
SD96-203	1.7	3.3	1.7	2.0	2.0	3.0
SD96-1043	1.9	2.0	1.0	2.0	1.0	2.5
SD96-1960	1.7	3.0	1.7	2.0	2.0	2.3
U97-2104	1.5	1.7	1.0	1.0	2.0	1.3
U97-2406	1.6	3.0	1.7	1.0	1.0	3.0
U97-201201	1.9	2.7	2.0	2.0	2.0	3.0
U97-207134	2.1	3.0	1.7	2.0	2.0	3.3

UNIFORM TEST II, 2000

PLANT HEIGHT (inches)

Strain	Mean 19 Tests	Ames IA	Rippey IA	Dekalb IL	Dwight IL	Urbana IL
IA2021 (II)	29	34	28	29	29	28
IA2050 (I)	29	34	32	31	33	28
IA2036 (SCN)	35	43	35	40	36	36
IA2052 (L)	34	43	35	34	39	33
A98-883023	30	35	31	31	34	31
A98-884037	33	36	34	35	37	34
C1979	32	40	31	32	34	34
E95505	30	38	30	32	33	35
HS96-3332	36	43	40	36	40	36
HS97-4544	35	42	37	35	39	36
LN94-14862-97-2	37	47	39	39	43	40
M92-191023	34	41	36	35	39	32
ORC 9808	31	39	30	31	35	30
SD96-170	33	40	34	32	37	33
SD96-190	37	47	37	41	39	36
SD96-203	34	43	34	35	37	33
SD96-1043	31	41	32	33	34	32
SD96-1960	27	34	27	26	27	25
U97-2104	29	35	29	30	31	26
U97-2406	36	43	39	39	39	36
U97-201201	33	41	34	34	39	33
U97-207134	34	41	33	34	35	32

UNIFORM TEST II, 2000

PLANT HEIGHT (inches)

Strain	Lafayette IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2021 (II)	30	26	25	31	30
IA2050 (I)	31	28	14	34	31
IA2036 (SCN)	38	28	16	44	40
IA2052 (L)	37	17	27	39	40
A98-883023	33	28	14	34	33
A98-884037	34	22	17	39	38
C1979	31	27	30	36	37
E95505	33	25	15	33	35
HS96-3332	38	30	16	39	38
HS97-4544	39	28	30	40	42
LN94-14862-97-2	39	32	17	42	38
M92-191023	34	31	16	37	37
ORC 9808	32	23	26	36	32
SD96-170	35	31	15	37	41
SD96-190	39	31	19	43	42
SD96-203	32	10	31	39	42
SD96-1043	32	23	16	37	34
SD96-1960	26	24	13	29	30
U97-2104	32	23	14	33	34
U97-2406	38	25	18	43	41
U97-201201	32	29	15	37	36
U97-207134	33	27	31	37	37

UNIFORM TEST II, 2000

PLANT HEIGHT (inches)

Strain	Beemer NE	Hartington NE	Goehner NE	Hoytville OH
IA2021 (II)		33	36	21
IA2050 (I)		31	38	18
IA2036 (SCN)		37	44	23
IA2052 (L)		38	41	22
A98-883023		31	33	22
A98-884037		37	44	21
C1979		30	43	21
E95505		33	35	18
HS96-3332		38	43	23
HS97-4544		36	44	24
LN94-14862-97-2		32	47	27
M92-191023		34	42	23
ORC 9808		35	36	20
SD96-170		35	44	20
SD96-190		39	50	20
SD96-203		34	43	21
SD96-1043		37	40	20
SD96-1960		28	32	14
U97-2104		33	36	19
U97-2406		40	47	21
U97-201201		35	43	20
U97-207134		35	42	24

UNIFORM TEST II, 2000

PLANT HEIGHT (inches)

Strain	Wooster OH	Chatham Ont.	Harrow Ont.	Beresford SD	Brookings SD	Arlington WI
IA2021 (II)	20	36	31	27	24	30
IA2050 (I)	22	40	32	26	22	34
IA2036 (SCN)	24	49	40	35	28	39
IA2052 (L)	27	44	36	35	30	37
A98-883023	23	36	32	27	24	34
A98-884037	26	43	36	31	24	39
C1979	25	41	32	28	28	36
E95505	19	45	20	32	30	35
HS96-3332	28	49	37	36	31	37
HS97-4544	27	46	35	30	24	36
LN94-14862-97-2	28	47	36	35	31	41
M92-191023	26	44	36	32	30	39
ORC 9808	21	39	31	27	30	34
SD96-170	25	42	35	31	30	37
SD96-190	25	47	40	34	35	43
SD96-203	24	50	35	33	30	38
SD96-1043	22	40	33	34	24	36
SD96-1960	19	35	28	28	31	28
U97-2104	22	39	31	26	22	32
U97-2406	25	45	37	36	26	40
U97-201201	25	45	33	32	28	37
U97-207134	26	45	33	32	26	35

UNIFORM TEST II, 2000

SEED SIZE (g/100)

Strain	Mean 20 Tests	Ames IA	Rippey IA	Dekalb IL	Dwight IL	Urbana IL
IA2021 (II)	15.7	15.4	14.4	17.0	15.3	13.9
IA2050 (I)	15.5	15.6	15.1	16.4	15.2	14.8
IA2036 (SCN)	13.7	13.9	13.0	14.2	12.9	13.5
IA2052 (L)	13.9	14.2	13.2	14.2	14.0	14.2
A98-883023	14.1	13.7	13.4	14.2	13.8	13.8
A98-884037	16.8	16.9	16.5	16.4	17.8	16.5
C1979	13.0	13.3	12.0	13.2	13.1	13.4
E95505	14.2	14.8	13.5	15.1	13.8	14.2
HS96-3332	14.7	14.4	13.5	14.7	15.2	14.5
HS97-4544	16.0	16.1	15.4	16.4	16.8	16.1
LN94-14862-97-2	11.1	11.6	10.2	11.3	11.8	10.8
M92-191023	15.8	15.6	15.1	16.1	17.3	14.8
ORC 9808	14.5	14.5	14.4	16.1	13.8	13.7
SD96-170	16.6	16.6	15.9	16.1	17.6	16.8
SD96-190	14.1	14.5	13.7	14.6	13.5	15.5
SD96-203	16.1	16.5	14.3	17.2	16.8	16.5
SD96-1043	16.8	17.9	17.1	18.4	16.3	17.3
SD96-1960	16.8	17.1	16.1	17.0	17.9	16.5
U97-2104	14.7	15.2	13.0	15.2	15.4	13.7
U97-2406	16.2	16.1	15.4	16.9	16.9	15.7
U97-201201	15.9	16.2	14.8	15.2	15.7	14.8
U97-207134	15.3	15.1	14.5	15.6	14.8	15.3

UNIFORM TEST II, 2000

SEED SIZE (g/100)

Strain	Lafayette IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2021 (II)	13.7	15.4	15.9	14.5	18.0
IA2050 (I)	14.5	13.5	15.2	14.9	15.8
IA2036 (SCN)	12.1	12.6	14.5	14.5	14.2
IA2052 (L)	12.1	11.3	12.7	12.3	15.6
A98-883023	11.5	11.7	13.7	14.3	15.1
A98-884037	16.0	14.1	18.1	14.6	19.8
C1979	13.0	12.3	13.1	11.4	13.2
E95505	12.6	12.0	13.5	14.9	15.8
HS96-3332	13.5	12.6	14.8	13.5	16.4
HS97-4544	15.2	14.7	15.4	14.0	18.3
LN94-14862-97-2	10.8	10.9	11.2	10.0	10.8
M92-191023	13.9	14.9	16.6	14.7	17.6
ORC 9808	13.6	12.4	14.2	13.7	16.0
SD96-170	15.1	14.8	15.9	16.2	19.3
SD96-190	12.9	11.7	14.2	13.6	16.4
SD96-203	14.0	13.2	16.9	15.4	19.2
SD96-1043	15.4	14.2	16.6	16.5	20.0
SD96-1960	16.1	14.1	17.4	17.9	18.8
U97-2104	13.2	12.6	15.0	14.9	17.2
U97-2406	15.1	14.9	15.2	14.8	18.6
U97-201201	15.5	14.8	16.6	15.4	17.9
U97-207134	14.6	15.1	16.3	13.6	17.3

UNIFORM TEST II, 2000

SEED SIZE (g/100)

Strain	David City NE	Hartington NE	Goehner NE	Hoytville OH
IA2021 (II)	13.5	15.9	15.0	15.9
IA2050 (I)	14.1	15.7	15.7	14.6
IA2036 (SCN)	12.4	13.5	13.5	14.1
IA2052 (L)	12.9	14.2	14.0	14.2
A98-883023	12.7	13.8	14.2	14.1
A98-884037	15.7	16.2	17.0	16.9
C1979	11.4	12.8	12.8	12.5
E95505	13.7	14.0	13.7	14.0
HS96-3332	14.0	15.0	14.6	15.3
HS97-4544	14.5	16.0	15.5	14.8
LN94-14862-97-2	9.8	10.9	9.7	11.1
M92-191023	13.7	14.7	14.3	17.8
ORC 9808	12.6	13.6	13.6	14.3
SD96-170	15.3	16.4	15.1	16.3
SD96-190	12.8	13.3	13.8	13.9
SD96-203	13.9	15.7	15.5	17.5
SD96-1043	16.6	16.5	15.6	16.2
SD96-1960	15.3	16.3	16.5	18.3
U97-2104	13.0	14.9	15.2	13.8
U97-2406	14.6	15.8	15.6	14.8
U97-201201	14.4	15.2	15.1	15.1
U97-207134	13.3	14.8	14.1	14.8

UNIFORM TEST II, 2000

SEED SIZE (g/100)

Strain	Wooster OH	Chatham Ont.	Harrow Ont.	Beresford SD	Brookings SD	Arlington WI
IA2021 (II)	14.7	20.6	18.5	14.1	14.2	18.4
IA2050 (I)	14.2	20.6	16.9	16.8	14.6	16.6
IA2036 (SCN)	13.0	16.9	15.0	13.1	12.5	15.6
IA2052 (L)	14.0	16.8	15.0	13.7	13.8	14.6
A98-883023	14.0	18.6	16.8	14.0	13.0	15.5
A98-884037	16.5	19.9	17.7	15.9	14.8	19.1
C1979	12.8	16.6	14.6	12.0	11.4	14.7
E95505	13.8	18.5	14.7	13.9	11.6	16.1
HS96-3332	15.0	17.5	15.8	14.5	13.1	16.3
HS97-4544	15.4	20.0	17.1	16.3	13.7	18.6
LN94-14862-97-2	11.8	13.2	12.1	11.5	9.3	12.2
M92-191023	14.9	20.4	18.0	14.8	12.7	17.2
ORC 9808	14.7	18.3	15.7	13.7	13.7	16.7
SD96-170	16.6	19.8	17.2	16.9	14.7	18.5
SD96-190	13.5	16.0	16.6	13.4	11.8	15.3
SD96-203	14.8	19.7	17.2	15.5	13.6	17.9
SD96-1043	17.1	20.0	17.9	14.3	14.7	17.9
SD96-1960	16.0	19.1	18.1	16.2	14.4	17.5
U97-2104	14.4	18.4	15.5	14.3	12.6	16.6
U97-2406	17.1	19.6	18.4	16.1	14.5	18.5
U97-201201	16.9	19.9	16.8	15.8	14.5	17.8
U97-207134	16.0	19.0	17.8	14.5	12.1	17.6

UNIFORM TEST II, 2000

PROTEIN (%)

Strain	Mean 5 Tests	Ames IA	Urbana IL	Lafayette IN	Lamberton MN	Wooster OH
IA2021 (II)	40.1	40.7	39.8	39.6	39.6	41.0
IA2050 (I)	41.4	41.5	41.5	42.0	41.5	40.5
IA2036 (SCN)	42.4	43.3	42.4	42.1	41.1	43.1
IA2052 (L)	42.1	43.9	42.5	40.9	40.1	43.2
A98-883023	41.7	42.1	42.4	41.2	40.2	42.5
A98-884037	41.8	43.0	41.4	42.1	40.1	42.3
C1979	43.1	43.8	44.0	44.3	40.8	42.9
E95505	39.5	39.9	40.9	38.0	39.3	39.2
HS96-3332	40.9	41.8	40.7	41.1	39.6	41.2
HS97-4544	41.3	40.4	42.1	41.1	40.9	42.0
LN94-14862-97-2	41.5	41.7	41.9	42.8	40.5	40.7
M92-191023	41.3	42.2	41.5	41.3	40.6	41.0
ORC 9808	41.9	39.9	42.8	41.5	42.0	43.6
SD96-170	41.7	41.2	41.0	43.9	40.9	41.4
SD96-190	41.1	43.3	41.1	40.8	39.6	40.8
SD96-203	40.7	40.8	38.3	41.9	40.9	41.3
SD96-1043	42.2	41.9	41.5	42.4	42.4	42.8
SD96-1960	42.7	42.3	43.3	42.9	42.4	42.6
U97-2104	41.5	41.1	41.0	42.8	40.5	42.1
U97-2406	41.2	43.3	40.5	41.8	39.9	40.6
U97-201201	40.7	40.2	41.4	42.0	40.1	39.7
U97-207134	41.3	39.9	41.8	42.0	40.7	42.0

UNIFORM TEST II, 2000

OIL (%)

Strain	Mean 5 Tests	Ames IA	Urbana IL	Lafayette IN	Lamberton MN	Wooster OH
IA2021 (II)	20.5	20.4	21.5	20.9	19.3	20.5
IA2050 (I)	19.5	19.4	20.0	19.3	19.0	20.0
IA2036 (SCN)	18.3	18.1	19.0	18.6	17.4	18.2
IA2052 (L)	19.7	19.3	20.3	20.3	19.0	19.4
A98-883023	19.8	20.2	19.8	19.7	19.3	20.0
A98-884037	19.7	19.4	20.2	20.1	18.6	19.9
C1979	19.3	19.4	19.6	19.3	19.0	19.4
E95505	19.3	19.6	20.0	18.6	18.0	20.1
HS96-3332	19.7	19.8	20.2	19.8	19.0	19.7
HS97-4544	19.8	20.5	20.0	20.1	18.5	19.7
LN94-14862-97-2	19.1	19.6	19.2	19.0	18.3	19.3
M92-191023	19.3	19.0	19.9	19.6	18.2	19.7
ORC 9808	19.3	20.2	19.3	19.8	18.5	18.7
SD96-170	19.3	19.3	20.1	18.8	18.6	19.5
SD96-190	19.9	19.8	20.6	20.5	19.2	19.7
SD96-203	19.3	19.1	19.9	19.5	18.6	19.5
SD96-1043	20.3	19.3	21.9	20.6	19.9	19.5
SD96-1960	19.5	19.7	19.9	19.9	18.6	19.3
U97-2104	19.2	19.6	20.3	19.0	18.3	18.8
U97-2406	19.6	18.4	20.6	19.4	19.3	20.2
U97-201201	19.6	20.9	19.2	20.1	18.8	18.9
U97-207134	19.5	20.6	19.5	19.5	18.7	19.0

Preliminary Test IIA, 2000

	Strain	Parentage	Generation Composited	Unique Traits
1.	IA2021 (II)	Elgin 87 x Marcus	F5	
2.	IA2050 (I)	Northrup King 24-92 x A91-501002	F5	BSR
3.	IA2052 (L)	Northrup King S24-92 x Parker	F5	
4.	A99-115003	AP1995 x Pioneer 9172	F5	
5.	A99-115032	M91-1137 x IA2021	F5	
6.	A99-116042	Pioneer 9321 x A92-627030	F4	
7.	A99-217001	DSR-365 x AP1995	F5	
8.	A99-217006	DSR-365 x AP1995	F5	
9.	A99-217033	A94-572029 x Pioneer 9321	F5	
10.	A99-217044	AP1995 x Northrup King S20-91	F4	
11.	A99-218003	AP1995 x A94-572029	F4	
12.	A99-218004	AP1995 x A94-572029	F4	
13.	A99-218006	A95-590013 x A95-590008	F5	
14.	A99-218008	AP1995 x Pioneer 9321	F5	
15.	A99-218013	Pioneer 9381 x AP1995	F5	
16.	A99-218016	Pioneer 9172 x Pioneer 9321	F5	
17.	A99-218034	AP1995 x Northrup King S20-91	F4	
18.	A99-314041	DSR-365 x Northrup King S20-91	F5	
19.	HS97-4918	HS92-9353 x Stressland	F5	
20.	HS97-4926	HS92-9353 x Stressland	F5	
21.	HS98-3218	Flint x Pioneer 9392	F5	
22.	U98-200207	MSBP5	F4	
23.	U98-200350	MSBP5	F4	
24.	U98-200749	MSBP5	F4	
25.	U98-200912	U94-2306 x U94-3518	F4	
26.	U98-200919	Colfax x Pioneer 9321	F4	
27.	U98-200931	Colfax x Pioneer 9321	F4	
28.	U98-200938	Colfax x Pioneer 9321	F4	
29.	U98-201113	U94-3412 x U94-3518	F4	
30.	U98-201149	Dunbar x A94-674017	F4	

PRELIMINARY TEST IIA, 2000

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Humboldt	Shattering Score Manhattan	PR Lafayette Race 7	PS Lafayette a %	P&SB Lafayette n %
IA2021 (II)	WTBSYBIIep	3.0	1.0	R	20	4
IA2050 (I)	PTBSYBIIEp	4.0	3.0	R	4	2
IA2052 (L)	WGBDYBfIEp	4.0	1.0	H	46	2
A99-115003	PGBSYBfIEp	3.0	3.0	R	12	8
A99-115032	P+WT+GBSYHIep	4.0	1.0	R	28	0
A99-116042	PGBSYBrIH	4.0	2.0	H	26	2
A99-217001	WTBDYBIIEp	4.0	1.0	R	20	8
A99-217006	WTB+TDYBIIEp	3.0	1.0	R	10	4
A99-217033	PGBSYBrIEp	3.0	3.0	H	4	0
A99-217044	PT+GB+TDYBIIH	3.0	2.0	R	44	22
A99-218003	PGBSYBIIEp	3.0	2.0	H	32	8
A99-218004	PGTSYBrIEp	3.0	1.0	R	50	4
A99-218006	PTBDYBrIEp	3.0	2.0	R	16	6
A99-218008	PGBDYBrIEp	3.0	2.0	R	32	0
A99-218013	P+WTBDYBIIEp	3.0	1.0	H	16	16
A99-218016	PTBSYBIIEp	4.0	2.0	R	0	6
A99-218034	PGTDYBfIH	4.0	1.0	R	36	10
A99-314041	PGBDYBIIep	4.0	1.0	R	26	8
HS97-4918	PGBDYBfIep	4.0	1.0	R	22	6
HS97-4926	PTBDYBrIep	4.0	1.0	R	0	2
HS98-3218	PTBDYBIIEp	4.0	1.0	R	0	0
U98-200207	PTBDYGrIEp	4.0	2.0	H	46	10
U98-200350	PTBSYBIIH	4.0	2.0	R	32	6
U98-200749	PTBDYBIIEp	4.0	2.0	S	4	4
U98-200912	WGBDYBIIEp	4.0	2.0	R	38	0
U98-200919	WGBDYBrIH	4.0	2.0	R	4	0
U98-200931	WGBDYBrIEp	4.0	2.0	H	14	0
U98-200938	P+WT+GB+TDYBIDep	3.0	1.0	R	26	2
U98-201113	WGBDYBIIEp	3.0	1.0	S	6	4
U98-201149	PT+GBSYBIIH	4.0	1.0	R	22	18

PRELIMINARY TEST IIA, 2000

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 9 Date	Lodging 10 Score	Plant Height 10 In.	Seed Size 10 g/100	Composition Protein 4 %	 Oil 4 %
IA2021 (II)	46.5	25	9/11	1.5	25	14.9	38.7	21.4
IA2050 (I)	48.2	17	-0.3	1.2	26	15.4	41.0	19.8
IA2052 (L)	50.8	5	2.5	1.3	31	13.4	42.2	20.0
A99-115003	49.9	10	2.0	1.5	31	14.1	40.3	20.2
A99-115032	49.8	11	-0.4	1.5	28	14.7	40.9	20.8
A99-116042	50.2	9	3.3	1.2	28	14.2	41.5	20.1
A99-217001	51.8	2	5.5	1.5	33	13.4	39.8	20.0
A99-217006	54.2	1	6.1	1.6	32	13.2	40.3	19.4
A99-217033	51.3	3	1.2	1.9	31	13.9	42.4	18.7
A99-217044	47.1	22	9.2	1.4	33	16.7	42.3	18.9
A99-218003	49.0	14	7.4	1.6	30	13.9	39.9	20.5
A99-218004	50.3	8	5.8	1.3	26	13.5	41.2	20.2
A99-218006	47.6	19	5.4	1.4	29	14.4	42.3	18.9
A99-218008	50.6	6	4.7	1.5	31	14.0	40.7	19.3
A99-218013	47.5	21	7.0	1.6	29	13.0	39.0	20.5
A99-218016	49.8	11	5.9	1.6	28	14.4	39.9	20.0
A99-218034	48.3	16	8.3	1.2	28	15.5	41.3	19.7
A99-314041	47.6	19	8.6	1.6	30	15.7	41.6	19.6
HS97-4918	43.8	29	-0.7	1.3	25	16.4	41.6	20.7
HS97-4926	45.8	27	0.4	1.3	26	15.4	40.9	20.6
HS98-3218	42.6	30	-2.5	1.2	23	14.3	42.4	19.9
U98-200207	46.1	26	4.5	1.8	37	12.7	40.9	19.8
U98-200350	46.7	24	5.0	1.8	31	13.4	39.6	20.9
U98-200749	45.6	28	5.1	1.6	34	12.9	42.0	19.7
U98-200912	50.4	7	9.0	1.3	29	14.0	42.7	20.0
U98-200919	48.4	15	6.5	1.3	29	13.6	42.0	19.3
U98-200931	49.4	13	6.1	1.5	29	13.6	41.5	19.4
U98-200938	47.1	22	5.3	1.5	24	14.7	42.1	19.3
U98-201113	50.9	4	7.6	1.4	30	14.4	41.8	19.5
U98-201149	48.1	18	4.2	1.7	31	14.8	41.8	19.6

119.8 Days After Planting

PRELIMINARY TEST IIA, 2000

YIELD (bu/a)

Strain	Mean 10 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN	Ingham County MI
IA2021 (II)	46.5	57.0	39.0	45.6	35.3	31.6
IA2050 (I)	48.2	57.6	41.7	51.4	40.1	30.2
IA2052 (L)	50.8	62.7	44.6	51.1	32.2	43.1
A99-115003	49.9	59.0	43.1	53.2	37.0	39.0
A99-115032	49.8	64.6	42.3	49.4	36.7	43.6
A99-116042	50.2	60.4	49.1	49.8	40.8	42.6
A99-217001	51.8	54.3	44.8	60.5	44.0	41.6
A99-217006	54.2	58.4	38.2	58.5	49.9	49.6
A99-217033	51.3	61.9	39.1	61.1	40.9	40.2
A99-217044	47.1	49.8	33.4	55.1	43.6	40.9
A99-218003	49.0	51.0	34.9	56.2	39.7	50.5
A99-218004	50.3	62.1	39.4	52.7	38.4	31.5
A99-218006	47.6	52.9	35.1	42.8	41.8	44.8
A99-218008	50.6	51.9	45.4	57.3	41.0	42.9
A99-218013	47.5	54.0	42.8	55.2	35.4	42.6
A99-218016	49.8	48.8	37.3	50.2	44.5	47.6
A99-218034	48.3	50.7	34.9	53.7	45.0	46.7
A99-314041	47.6	56.5	40.1	49.1	36.3	37.6
HS97-4918	43.8	51.6	40.9	47.8	27.3	40.1
HS97-4926	45.8	55.5	44.8	46.3	33.3	39.7
HS98-3218	42.6	50.9	40.4	39.7	30.8	38.7
U98-200207	46.1	52.6	43.3	45.9	39.5	37.1
U98-200350	46.7	51.3	40.6	45.1	37.5	45.4
U98-200749	45.6	48.3	38.9	54.5	36.3	30.9
U98-200912	50.4	53.6	39.8	51.6	45.3	44.6
U98-200919	48.4	56.4	37.2	49.3	40.1	43.8
U98-200931	49.4	55.8	40.7	54.5	37.7	39.4
U98-200938	47.1	49.8	38.5	55.3	31.6	38.0
U98-201113	50.9	60.9	36.6	55.2	51.6	43.5
U98-201149	48.1	55.7	41.2	58.0	35.3	45.8
C.V. (%)		8.0	8.7	9.2	12.3	5.6
L.S.D. (5%)		9.1	7.2	9.8	9.8	5.9
Row Sp. (In.)		27	27	30	24	15
Rows/Plot		4	4	4	4	6
Reps		2	2	2	2	2

PRELIMINARY TEST IIA, 2000

YIELD (bu/a)

Strain	Goehner NE	Hoytville OH	Harrow Ont.	Beresford SD	Brookings SD
IA2021 (II)	61.0	41.7	76.4	48.3	29.4
IA2050 (I)	62.3	42.8	62.3	55.9	38.0
IA2052 (L)	67.3	53.4	65.2	56.3	32.5
A99-115003	60.6	45.7	69.8	49.6	42.6
A99-115032	64.5	44.6	68.2	55.0	29.7
A99-116042	68.3	40.7	71.3	53.5	25.6
A99-217001	65.1	51.1	71.1	50.8	34.7
A99-217006	74.8	52.6	67.5	61.0	31.7
A99-217033	72.5	44.5	65.0	49.9	38.2
A99-217044	62.1	47.4	64.3	48.5	26.0
A99-218003	66.9	39.7	68.7	46.6	35.5
A99-218004	70.8	50.4	66.0	53.5	38.3
A99-218006	57.8	50.1	69.9	50.5	30.6
A99-218008	70.0	42.1	61.6	58.9	34.6
A99-218013	62.1	44.4	60.8	51.0	27.1
A99-218016	60.0	54.8	65.7	53.3	35.4
A99-218034	61.2	41.1	58.1	50.1	41.7
A99-314041	56.4	50.1	65.3	52.4	32.1
HS97-4918	59.1	43.0	53.5	41.7	33.3
HS97-4926	54.7	40.9	66.7	45.9	29.9
HS98-3218	56.6	36.7	59.6	47.6	25.1
U98-200207	51.4	48.0	70.0	46.1	27.3
U98-200350	55.1	49.4	64.2	49.7	28.5
U98-200749	53.5	42.2	71.8	48.4	30.9
U98-200912	63.7	49.4	75.6	49.8	31.2
U98-200919	58.5	50.0	68.6	48.9	30.9
U98-200931	59.6	50.2	72.6	49.2	34.6
U98-200938	53.0	53.4	73.7	47.3	30.5
U98-201113	62.6	43.4	73.8	51.1	30.8
U98-201149	59.7	44.6	64.3	47.1	29.4
C.V. (%)	8.2	9.2	6.5	9.5	15.7
L.S.D. (5%)	10.3	7.3	7.4	9.8	10.3
Row Sp. (In.)	30	7.5	18	30	30
Rows/Plot	4	8	5	4	4
Reps	2	2	2	2	2

PRELIMINARY TEST IIA, 2000

YIELD RANK

Strain	Yield Rank	Ames IA	Rippey IA	Urbana IL	Lafayette IN	East Lansing MI
IA2021 (II)	25	10	20	27	24	27
IA2050 (I)	17	9	10	17	12	30
IA2052 (L)	5	2	5	18	27	12
A99-115003	10	7	7	14	19	22
A99-115032	11	1	9	21	20	10
A99-116042	9	6	1	20	11	14
A99-217001	2	16	3	2	6	16
A99-217006	1	8	23	3	2	2
A99-217033	3	4	19	1	10	18
A99-217044	22	27	30	10	7	17
A99-218003	14	24	28	6	14	1
A99-218004	8	3	18	15	16	28
A99-218006	19	19	27	29	8	7
A99-218008	6	21	2	5	9	13
A99-218013	21	17	8	8	23	15
A99-218016	11	29	24	19	5	3
A99-218034	16	26	28	13	4	4
A99-314041	19	11	16	23	21	25
HS97-4918	29	22	12	24	30	19
HS97-4926	27	15	3	25	26	20
HS98-3218	30	25	15	30	29	23
U98-200207	26	20	6	26	15	26
U98-200350	24	23	14	28	18	6
U98-200749	28	30	21	11	21	29
U98-200912	7	18	17	16	3	8
U98-200919	15	12	25	22	12	9
U98-200931	13	13	13	11	17	21
U98-200938	22	27	22	7	28	24
U98-201113	4	5	26	8	1	11
U98-201149	18	14	11	4	24	5

PRELIMINARY TEST IIA, 2000

YIELD RANK

Strain	Goehner NE	Hoytville OH	Harrow Ont.	Beresford SD	Brookings SD
IA2021 (II)	16	25	1	23	23
IA2050 (I)	12	22	25	4	5
IA2052 (L)	6	2	20	3	12
A99-115003	17	15	11	18	1
A99-115032	9	16	14	5	22
A99-116042	5	28	7	6	29
A99-217001	8	5	8	12	8
A99-217006	1	4	15	1	14
A99-217033	2	18	21	15	4
A99-217044	13	14	22	21	28
A99-218003	7	29	12	27	6
A99-218004	3	6	17	6	3
A99-218006	23	8	10	13	19
A99-218008	4	24	26	2	9
A99-218013	13	19	27	11	27
A99-218016	18	1	18	8	7
A99-218034	15	26	29	14	2
A99-314041	25	8	19	9	13
HS97-4918	21	21	30	30	11
HS97-4926	27	27	16	29	21
HS98-3218	24	30	28	24	30
U98-200207	30	13	9	28	26
U98-200350	26	11	24	17	25
U98-200749	28	23	6	22	16
U98-200912	10	11	2	16	15
U98-200919	22	10	13	20	16
U98-200931	20	7	5	19	9
U98-200938	29	2	4	25	20
U98-201113	11	20	3	10	18
U98-201149	19	16	23	26	23

PRELIMINARY TEST IIA, 2000

MATURITY (date)

Strain	Mean 9 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN	East Lansing MI
IA2021 (II)	09/11	09/07		08/26	09/02	09/30
IA2050 (I)	-0.3	0		-1	-1	2
IA2052 (L)	2.5	4		6	2	3
A99-115003	2.0	2		1	1	3
A99-115032	-0.4	1		-1	-1	0
A99-116042	3.3	2		7	2	1
A99-217001	5.5	4		9	8	7
A99-217006	6.1	3		11	9	9
A99-217033	1.2	-1		-3	-1	1
A99-217044	9.2	9		9	10	10
A99-218003	7.4	7		8	6	10
A99-218004	5.8	4		4	3	10
A99-218006	5.4	6		7	7	6
A99-218008	4.7	6		1	5	8
A99-218013	7.0	6		6	4	6
A99-218016	5.9	5		10	7	6
A99-218034	8.3	8		8	9	9
A99-314041	8.6	7		9	8	11
HS97-4918	-0.7	0		-3	-1	3
HS97-4926	0.4	-3		-2	0	4
HS98-3218	-2.5	-5		-5	-6	2
U98-200207	4.5	5		6	4	6
U98-200350	5.0	5		1	4	7
U98-200749	5.1	4		7	6	5
U98-200912	9.0	10		13	11	8
U98-200919	6.5	4		8	9	6
U98-200931	6.1	8		10	4	8
U98-200938	5.3	3		10	5	9
U98-201113	7.6	7		13	11	7
U98-201149	4.2	5		4	4	5
Date Planted	05/14	05/01		04/28	05/05	06/09
Days to Mature	120	129		120	120	113

PRELIMINARY TEST IIA, 2000

MATURITY (date)

Strain	Goehner NE	Hoytville OH	Harrow Ont.	Beresford SD	Brookings SD
IA2021 (II)	09/10	09/17	09/30	08/29	09/16
IA2050 (I)	1	-3	-1	2	-1
IA2052 (L)	4	2	1	1	-1
A99-115003	4	-0	2	4	2
A99-115032	-1	0	-2	2	-1
A99-116042	4	0	1	8	5
A99-217001	7	2	3	7	4
A99-217006	9	1	3	5	5
A99-217033	5	1	1	4	3
A99-217044	13	9	9	7	7
A99-218003	13	4	3	10	5
A99-218004	10	5	5	2	10
A99-218006	14	-0	3	3	3
A99-218008	11	0	4	9	-1
A99-218013	16	7	5	8	5
A99-218016	11	2	2	4	6
A99-218034	12	7	7	7	8
A99-314041	11	6	10	8	8
HS97-4918	-1	-2	-1	0	-1
HS97-4926	0	-1	-2	8	0
HS98-3218	-2	-1	-2	-1	-3
U98-200207	6	2	4	5	3
U98-200350	13	4	3	5	4
U98-200749	6	1	2	6	9
U98-200912	12	6	4	11	6
U98-200919	12	2	3	8	7
U98-200931	6	5	4	5	5
U98-200938	3	2	4	7	5
U98-201113	11	4	4	3	8
U98-201149	10	2	2	2	4
Date Planted	05/24	05/16	06/05	05/09	05/05
Days to Mature	109	124	117	112	134

PRELIMINARY TEST IIA, 2000

LODGING (score)

Strain	Mean 10 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN	East Lansing MI
IA2021 (II)	1.5	1.3	1.5	1.0	1.0	1.5
IA2050 (I)	1.2	1.5	1.0	1.0	1.0	1.5
IA2052 (L)	1.3	1.8	1.5	1.0	1.0	1.5
A99-115003	1.5	1.8	1.5	1.0	1.3	2.0
A99-115032	1.5	1.5	1.3	1.0	1.0	1.5
A99-116042	1.2	1.3	1.3	1.0	1.0	1.5
A99-217001	1.5	1.8	1.5	1.3	1.0	1.5
A99-217006	1.6	1.5	1.5	1.3	1.3	2.0
A99-217033	1.9	3.8	2.0	1.0	1.3	2.5
A99-217044	1.4	1.8	1.0	1.0	1.0	2.0
A99-218003	1.6	1.5	1.3	1.0	1.0	3.0
A99-218004	1.3	1.5	1.3	1.0	1.0	1.5
A99-218006	1.4	1.5	1.3	1.0	1.0	1.5
A99-218008	1.5	1.5	1.3	1.0	1.3	2.0
A99-218013	1.6	1.5	1.8	1.0	1.0	2.5
A99-218016	1.6	1.5	1.5	1.0	1.3	2.5
A99-218034	1.2	1.0	1.0	1.0	1.0	1.5
A99-314041	1.6	1.8	1.5	1.0	1.0	2.0
HS97-4918	1.3	1.3	1.3	1.0	1.0	1.5
HS97-4926	1.3	1.0	1.0	1.0	1.0	1.0
HS98-3218	1.2	1.0	1.0	1.0	1.0	1.0
U98-200207	1.8	1.8	1.5	1.5	1.0	2.5
U98-200350	1.8	1.5	1.5	1.0	1.0	4.0
U98-200749	1.6	1.8	1.8	1.5	1.0	1.5
U98-200912	1.3	1.5	1.3	1.0	1.0	1.0
U98-200919	1.3	1.8	1.0	1.0	1.0	2.5
U98-200931	1.5	1.5	1.5	1.0	1.3	2.0
U98-200938	1.5	1.3	1.3	1.0	1.0	1.5
U98-201113	1.4	1.5	1.0	1.0	1.0	2.0
U98-201149	1.7	1.5	1.5	1.5	1.0	2.5

PRELIMINARY TEST IIA, 2000

LODGING (score)

Strain	Goehner NE	Hoytville OH	Harrow Ont.	Beresford SD	Brookings SD
IA2021 (II)	2.0	1.3	1.0	2.0	2.0
IA2050 (I)	1.5	1.3	1.5	1.0	1.0
IA2052 (L)	1.5	1.2	1.0	1.0	2.0
A99-115003	2.0	1.3	1.5	2.0	1.0
A99-115032	2.0	1.2	2.0	2.0	2.0
A99-116042	1.0	1.3	1.0	1.0	2.0
A99-217001	2.0	1.3	1.5	1.0	2.0
A99-217006	2.0	1.3	2.0	1.0	2.0
A99-217033	2.0	1.3	1.5	2.0	2.0
A99-217044	2.0	1.3	1.5	1.0	1.0
A99-218003	2.0	1.3	1.0	2.0	2.0
A99-218004	1.5	1.3	1.0	1.0	2.0
A99-218006	1.5	1.3	1.5	1.0	2.0
A99-218008	2.0	1.3	1.0	2.0	2.0
A99-218013	2.0	1.2	1.5	2.0	2.0
A99-218016	2.0	1.2	2.0	1.0	2.0
A99-218034	1.0	1.2	1.0	1.0	2.0
A99-314041	1.5	1.3	1.5	2.0	2.0
HS97-4918	1.0	1.2	1.0	2.0	2.0
HS97-4926	1.0	1.2	1.5	2.0	2.0
HS98-3218	1.0	1.2	1.0	2.0	2.0
U98-200207	2.0	1.3	2.0	2.0	2.0
U98-200350	2.5	1.4	1.5	2.0	2.0
U98-200749	2.0	1.3	2.0	1.0	2.0
U98-200912	1.5	1.3	1.5	1.0	2.0
U98-200919	1.5	1.3	1.0	1.0	1.0
U98-200931	1.0	1.2	1.0	2.0	2.0
U98-200938	1.5	1.2	2.0	2.0	2.0
U98-201113	1.5	1.3	2.0	1.0	2.0
U98-201149	2.0	1.3	2.0	2.0	2.0

PRELIMINARY TEST IIA, 2000

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN	East Lansing MI
IA2021 (II)	25	33	29	26	27	24
IA2050 (I)	26	36	31	29	30	24
IA2052 (L)	31	43	38	35	32	29
A99-115003	31	40	36	34	34	27
A99-115032	28	37	33	28	29	28
A99-116042	28	35	35	31	30	27
A99-217001	33	45	38	39	36	32
A99-217006	32	41	33	39	39	33
A99-217033	31	41	35	36	32	25
A99-217044	33	41	35	39	36	31
A99-218003	30	39	35	35	31	33
A99-218004	26	36	30	30	28	24
A99-218006	29	38	31	30	34	29
A99-218008	31	44	38	34	38	28
A99-218013	29	39	38	32	32	27
A99-218016	28	36	32	30	30	31
A99-218034	28	36	29	30	34	28
A99-314041	30	39	35	33	31	27
HS97-4918	25	34	29	28	24	27
HS97-4926	26	34	31	26	25	27
HS98-3218	23	28	26	23	28	24
U98-200207	37	49	44	41	38	35
U98-200350	31	39	36	33	32	32
U98-200749	34	44	43	35	36	27
U98-200912	29	36	36	31	30	29
U98-200919	29	38	34	30	28	31
U98-200931	29	40	35	32	27	29
U98-200938	24	31	30	28	22	25
U98-201113	30	36	34	32	30	30
U98-201149	31	38	38	37	30	31

PRELIMINARY TEST IIA, 2000

PLANT HEIGHT (inches)

Strain	Goehner NE	Hoytville OH	Harrow Ont.	Beresford SD	Brookings SD
IA2021 (II)	35	22	28	26	2.0
IA2050 (I)	36	17	29	29	1.0
IA2052 (L)	45	23	35	32	2.0
A99-115003	41	26	34	33	1.0
A99-115032	39	22	30	31	2.0
A99-116042	39	20	32	32	2.0
A99-217001	46	25	32	35	2.0
A99-217006	43	23	36	34	2.0
A99-217033	48	18	35	33	2.0
A99-217044	50	26	38	36	1.0
A99-218003	45	19	27	31	2.0
A99-218004	39	18	27	26	2.0
A99-218006	41	22	32	34	2.0
A99-218008	48	16	32	33	2.0
A99-218013	44	20	27	31	2.0
A99-218016	43	21	29	27	2.0
A99-218034	42	21	29	30	2.0
A99-314041	45	24	31	32	2.0
HS97-4918	33	19	28	23	2.0
HS97-4926	35	18	30	28	2.0
HS98-3218	29	20	27	21	2.0
U98-200207	52	29	40	38	2.0
U98-200350	43	23	36	32	2.0
U98-200749	51	27	35	37	2.0
U98-200912	39	23	33	31	2.0
U98-200919	46	26	29	32	1.0
U98-200931	38	21	34	32	2.0
U98-200938	32	21	30	22	2.0
U98-201113	43	25	34	30	2.0
U98-201149	46	26	34	25	2.0

PRELIMINARY TEST IIA, 2000

SEED SIZE (g/100)

Strain	Mean 10 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN	East Lansing MI
IA2021 (II)	14.9	15.1	14.1	13.6	13.5	13.9
IA2050 (I)	15.4	14.9	15.6	15.5	14.9	13.4
IA2052 (L)	13.4	13.2	13.3	13.9	12.1	11.0
A99-115003	14.1	14.4	13.3	13.9	13.4	12.1
A99-115032	14.7	14.8	14.1	13.7	13.0	13.5
A99-116042	14.2	14.6	14.2	14.4	13.7	12.7
A99-217001	13.4	12.8	12.5	13.7	13.0	12.4
A99-217006	13.2	12.3	12.1	14.3	12.8	13.1
A99-217033	13.9	14.5	13.4	14.9	13.0	11.9
A99-217044	16.7	16.0	15.6	16.5	17.5	15.4
A99-218003	13.9	13.9	13.0	14.7	13.3	13.5
A99-218004	13.5	13.7	13.7	14.4	12.8	11.1
A99-218006	14.4	15.0	13.9	14.8	14.0	13.7
A99-218008	14.0	13.8	13.8	14.6	12.7	12.6
A99-218013	13.0	13.0	12.8	13.4	12.6	12.9
A99-218016	14.4	14.3	13.4	13.8	15.0	14.1
A99-218034	15.5	15.2	14.8	14.3	15.5	15.3
A99-314041	15.7	16.1	15.0	15.9	16.1	15.5
HS97-4918	16.4	16.4	15.6	15.7	15.4	15.3
HS97-4926	15.4	15.7	15.3	15.3	15.2	14.9
HS98-3218	14.3	15.5	14.1	13.6	13.6	14.8
U98-200207	12.7	12.4	12.3	12.3	13.1	12.0
U98-200350	13.4	14.3	13.7	11.7	13.6	13.5
U98-200749	12.9	13.3	12.4	14.5	13.2	12.0
U98-200912	14.0	14.2	13.2	14.3	14.6	13.7
U98-200919	13.6	14.2	12.8	12.6	14.2	13.9
U98-200931	13.6	14.4	13.2	13.9	13.9	12.9
U98-200938	14.7	15.2	14.5	15.2	13.9	13.7
U98-201113	14.4	14.1	13.5	14.2	14.5	15.7
U98-201149	14.8	15.4	15.3	13.5	14.2	14.5

PRELIMINARY TEST IIA, 2000

SEED SIZE (g/100)

Strain	Goehner NE	Hoytville OH	Harrow Ont.	Beresford SD	Brookings SD
IA2021 (II)	15.8	16.2	17.5	15.1	14.0
IA2050 (I)	15.9	16.0	17.0	16.4	14.5
IA2052 (L)	14.7	13.3	14.8	14.9	12.7
A99-115003	15.3	14.9	14.8	15.2	13.7
A99-115032	15.2	17.1	16.7	15.0	13.5
A99-116042	15.2	14.1	15.8	14.5	12.5
A99-217001	14.4	13.8	14.5	13.8	13.1
A99-217006	13.3	13.6	14.8	13.4	12.6
A99-217033	15.1	15.7	14.4	13.6	12.2
A99-217044	16.3	18.9	20.1	16.1	14.4
A99-218003	14.5	14.6	13.7	14.2	13.4
A99-218004	14.4	14.7	13.8	13.5	12.7
A99-218006	14.6	16.1	16.0	13.8	12.2
A99-218008	14.8	15.5	15.4	14.1	12.5
A99-218013	13.0	14.1	15.2	12.5	10.8
A99-218016	14.6	15.2	15.6	15.4	13.1
A99-218034	15.5	15.9	17.3	15.8	15.1
A99-314041	15.2	16.2	17.8	15.2	13.7
HS97-4918	16.8	18.5	17.8	16.2	16.2
HS97-4926	17.0	15.3	16.5	14.9	14.2
HS98-3218	15.2	13.7	16.2	13.7	12.2
U98-200207	12.5	12.6	14.5	13.4	11.5
U98-200350	13.9	13.3	15.3	13.3	11.2
U98-200749	13.7	12.0	14.8	11.0	11.7
U98-200912	14.5	13.3	15.3	14.8	11.8
U98-200919	13.7	14.7	15.1	13.5	11.4
U98-200931	13.7	14.1	15.7	13.3	10.6
U98-200938	15.3	16.6	15.9	15.3	11.1
U98-201113	14.4	13.7	16.7	15.1	12.5
U98-201149	14.3	14.7	18.3	15.2	13.0

PRELIMINARY TEST IIA, 2000

PROTEIN (%)

Strain	Mean 4 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN
IA2021 (II)	38.7	39.0	38.5	39.6	37.6
IA2050 (I)	41.0	40.7	41.3	40.4	41.6
IA2052 (L)	42.2	42.0	41.6	43.0	42.0
A99-115003	40.3	40.6	39.4	41.0	40.3
A99-115032	40.9	41.5	39.8	40.9	41.3
A99-116042	41.5	42.2	40.4	41.6	41.8
A99-217001	39.8	39.9	37.9	40.1	41.3
A99-217006	40.3	39.8	37.3	42.3	41.9
A99-217033	42.4	42.3	41.9	42.2	43.4
A99-217044	42.3	42.1	43.0	40.5	43.5
A99-218003	39.9	40.1	39.0	40.1	40.6
A99-218004	41.2	43.0	39.5	41.3	41.0
A99-218006	42.3	43.3	42.0	40.7	43.1
A99-218008	40.7	41.7	39.6	40.2	41.5
A99-218013	39.0	40.3	37.3	39.9	38.3
A99-218016	39.9	39.5	39.5	40.3	40.3
A99-218034	41.3	41.6	41.2	41.0	41.3
A99-314041	41.6	41.0	41.3	43.0	41.3
HS97-4918	41.6	42.8	40.2	41.4	41.7
HS97-4926	40.9	41.6	40.0	41.8	40.3
HS98-3218	42.4	41.0	43.3	43.3	42.2
U98-200207	40.9	41.2	39.6	41.8	40.9
U98-200350	39.6	40.9	38.8	38.7	40.2
U98-200749	42.0	42.4	39.7	42.5	43.5
U98-200912	42.7	42.5	42.7	43.5	41.9
U98-200919	42.0	42.4	40.2	41.7	43.5
U98-200931	41.5	42.5	40.5	41.2	41.6
U98-200938	42.1	41.5	41.5	42.2	43.3
U98-201113	41.8	42.5	41.3	42.1	41.4
U98-201149	41.8	41.4	41.5	42.4	42.0

PRELIMINARY TEST IIA, 2000

OIL (%)

Strain	Mean 4 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN
IA2021 (II)	21.4	20.6	21.5	21.5	22.1
IA2050 (I)	19.8	18.8	20.2	20.3	19.7
IA2052 (L)	20.0	19.7	20.3	19.9	20.1
A99-115003	20.2	19.5	20.5	20.2	20.5
A99-115032	20.8	20.1	21.6	20.5	21.2
A99-116042	20.1	18.9	20.6	20.4	20.6
A99-217001	20.0	19.0	20.4	20.3	20.1
A99-217006	19.4	18.2	19.8	19.8	19.6
A99-217033	18.7	18.3	18.9	19.1	18.6
A99-217044	18.9	18.0	18.6	19.7	19.1
A99-218003	20.5	19.9	20.2	21.0	20.9
A99-218004	20.2	19.3	20.5	20.3	20.7
A99-218006	18.9	18.7	19.2	18.8	19.0
A99-218008	19.3	18.4	19.6	20.1	18.9
A99-218013	20.5	19.5	20.6	20.6	21.2
A99-218016	20.0	19.2	20.0	20.0	20.8
A99-218034	19.7	18.8	19.3	19.8	20.9
A99-314041	19.6	18.9	19.4	19.4	20.7
HS97-4918	20.7	19.5	21.0	21.0	21.1
HS97-4926	20.6	19.9	20.7	20.7	20.9
HS98-3218	19.9	19.8	19.7	20.1	20.1
U98-200207	19.8	18.7	20.0	19.8	20.5
U98-200350	20.9	19.6	21.2	21.4	21.4
U98-200749	19.7	19.5	20.3	19.0	19.8
U98-200912	20.0	19.4	19.7	20.2	20.8
U98-200919	19.3	18.8	19.9	19.4	19.0
U98-200931	19.4	18.5	19.6	19.7	19.6
U98-200938	19.3	18.4	19.5	20.1	19.2
U98-201113	19.5	19.1	19.2	19.6	20.0
U98-201149	19.6	19.2	19.4	19.9	19.7

Preliminary Test IIB, 2000

	Strain	Parentage	Generation Composited	Unique Traits
1.	IA2021 (II)	Elgin 87 x Marcus	F5	
2.	IA2050 (I)	Northrup King 24-92 x A91-501002	F5	BSR
3.	IA2052 (L)	Northrup King S24-92 x Parker	F5	
4.	C1997	Kenwood 94 x CX1345-115	F5	
5.	C1998	Kenwood 94 x CX1345-115	F5	
6.	C2001	Kenwood 94 x CX1345-115	F5	
7.	C2002	Probst x CX1344-16	F5	
8.	C2005	A92-725035 x Athow	F5	
9.	E98050	DSC DSR-173 x Northrup King S30-06	F5	
10.	E98076	DSC DSR-217 x Northrup Ing S19-90	F5	
11.	E98083	Northrup King S23-12 x DSC DSR-217	F5	
12.	E98131	IA2021 x E93001	F5	
13.	E98170	Pioneer 9242 x Northrup King S19-90	F5	
14.	E98192	IA2022 x Northrup King S19-90	F5	
15.	E98197	IA2022 x Northrup King S19-90	F5	
16.	E98250	Northrup King S23-12 x Pioneer 9242	F5	
17.	LN97-14890	LN90-4366 x Cisne	F5	
18.	LN97-14926	LN90-4366 x Cisne	F5	
19.	M91-153087	Agassiz x Century L2	F4	Rps1
20.	ORC 9905	Asgow A2615 x Northrup King S24-92	F5	
21.	ORC 9906	Asgrow A2615 x Pioneer 9273	F5	
22.	SD97-157	SL91-1628M x SL91-1252N	F5	
23.	SD97-230	Vinton x SL89-3343	F5	
24.	SD97-330	Marcus x Kenwood	F5	
25.	SD97-456	Marcus x SL91-1252N	F5	
26.	SD97-460	Marcus x SL91-1252N	F5	
27.	SD97-580	Parker x SL91-11657N	F5	
28.	SD97-661	Hendricks x U91-2519	F5	
29.	SD97-1224	SL91-1767M x E91031	F5	
30.	SD97-1850	M88-84 x ORC 9108	F5	

PRELIMINARY TEST IIB, 2000

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Humboldt	Shattering Score Manhattan	PR Lafayette Race 7	PS Lafayette a %	P&SB Lafayette n %
IA2021 (II)	WTBSYBIIep	4.0	2.0	R	20	4
IA2050 (I)	PTBSYBIIEp	4.0	2.0	R	4	2
IA2052 (L)	WGBDYBflEp	4.0	2.0	H	46	2
C1997	PTBDYBIIep	5.0	1.0	S	46	6
C1998	PTBSYBIIep	4.0	1.0	S	34	4
C2001	PTBDYBIIep	4.0	1.0	R	46	12
C2002	PTBDYBIIep	4.0	3.0	R	4	12
C2005	PTBDYBIIH	4.0	2.0	R	20	8
E98050	PGBDYGrIH	4.0	1.0	H	20	4
E98076	PTBDYBIIEp	4.0	1.0	R	8	6
E98083	PGBDYGrIep	4.0	1.0	S	6	0
E98131	PGBDYYIep	4.0	3.0	S	4	2
E98170	PTBDYBrIEp	4.0	2.0	R	14	4
E98192	PTBSYBIIEp	4.0	1.0	R	24	0
E98197	PGTSYGrIEp	4.0	2.0	R	14	6
E98250	PGBSYBflEp	4.0	1.0	R	16	0
LN97-14890	PTBDYGrIEp	4.0	1.0	R	30	4
LN97-14926	PTBDYBIIEp	4.0	1.0	R	2	8
M91-153087	PGBDYIbIEp	3.0	2.0	R	4	8
ORC 9905	PTBSYBIIEp	4.0	3.0	R	26	6
ORC 9906	PTBSYBIIEp	4.0	2.0	R	24	6
SD97-157	PTBSYBIIep	4.0	2.0	H	16	0
SD97-230	PTBDYBrIep	4.0	3.0	R	10	1
SD97-330	PTBDYBIIep	4.0	1.0	H	24	12
SD97-456	WTBDYBrIH	4.0	1.0	R	34	4
SD97-460	WTBDYBIIep	4.0	2.0	R	26	2
SD97-580	PGBDYBflep	4.0	1.0	S	32	2
SD97-661	PTBDYBIIep	4.0	1.0	H	6	8
SD97-1224	WGBDYYIep	4.0	2.0	R	26	2
SD97-1850	PTBDYYIH	4.0	1.0	H	8	4

PRELIMINARY TEST IIB, 2000

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 9 Date	Lodging 10 Score	Plant Height 10 In.	Seed Size 10 g/100	Composition Protein 4 %	 Oil 4 %
IA2021 (II)	48.5	6	9/12	1.5	27	15.2	39.5	21.2
IA2050 (I)	48.4	8	-0.4	1.4	28	14.8	41.8	19.7
IA2052 (L)	52.6	1	1.5	1.5	33	13.8	43.0	19.7
C1997	43.9	22	3.2	1.5	31	14.7	42.5	19.3
C1998	42.3	28	4.2	1.7	33	13.4	47.7	16.6
C2001	44.2	20	5.4	1.4	32	14.7	45.4	17.1
C2002	43.9	22	4.7	1.4	34	13.8	45.8	17.3
C2005	48.6	5	5.1	1.5	32	14.1	42.7	19.1
E98050	48.0	11	1.3	1.4	31	15.5	41.4	19.6
E98076	49.4	4	4.1	1.3	32	14.7	39.3	20.3
E98083	40.9	30	0.8	1.2	31	15.1	40.4	20.3
E98131	42.6	26	-3.8	1.2	27	18.4	41.2	20.5
E98170	44.0	21	-2.5	1.2	30	17.1	42.6	19.0
E98192	47.4	12	4.9	1.3	30	14.6	39.3	19.2
E98197	44.4	19	2.3	1.6	33	14.2	40.1	19.0
E98250	46.2	15	1.4	1.3	34	14.7	42.4	19.5
LN97-14890	43.5	25	7.0	1.4	29	15.2	42.8	19.6
LN97-14926	48.1	9	8.0	1.6	30	14.5	42.1	19.9
M91-153087	42.1	29	-1.6	1.4	33	14.8	41.7	20.2
ORC 9905	50.7	3	2.5	1.4	30	13.0	40.2	19.9
ORC 9906	51.5	2	4.7	1.2	31	13.7	40.6	20.6
SD97-157	46.1	16	-0.4	1.3	29	14.4	42.5	19.6
SD97-230	46.9	13	-0.2	1.3	28	16.2	42.4	18.9
SD97-330	48.1	9	0.0	1.7	30	15.7	40.6	20.8
SD97-456	48.5	6	2.1	1.5	31	12.4	41.1	20.3
SD97-460	46.4	14	-2.3	1.5	29	15.0	42.0	20.0
SD97-580	45.1	18	-1.4	2.0	33	15.0	39.9	21.1
SD97-661	43.7	24	2.2	1.5	32	14.8	42.2	20.1
SD97-1224	45.9	17	-1.1	1.4	32	13.8	41.2	19.8
SD97-1850	42.6	26	-3.0	1.2	29	14.2	41.3	19.7

120.2 Days After Planting

PRELIMINARY TEST IIB, 2000

YIELD (bu/a)

Strain	Mean 10 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN	Ingham County MI
IA2021 (II)	48.5	55.2	40.8	49.3	39.2	41.1
IA2050 (I)	48.4	61.4	44.2	63.9	46.9	32.5
IA2052 (L)	52.6	55.8	47.4	60.7	48.2	41.8
C1997	43.9	46.1	33.9	44.2	40.1	33.9
C1998	42.3	54.4	39.2	42.0	40.3	30.7
C2001	44.2	48.7	37.2	43.9	43.2	37.9
C2002	43.9	51.6	40.7	51.9	41.6	40.9
C2005	48.6	56.0	38.3	52.8	47.5	48.6
E98050	48.0	53.1	37.7	43.3	43.7	42.8
E98076	49.4	53.7	43.3	55.3	50.5	47.7
E98083	40.9	54.1	36.9	49.2	41.4	23.9
E98131	42.6	53.8	41.3	45.1	33.6	17.3
E98170	44.0	54.7	37.5	49.8	42.8	36.7
E98192	47.4	58.0	37.5	53.4	47.0	42.7
E98197	44.4	56.3	39.9	52.5	42.3	36.1
E98250	46.2	49.9	35.2	53.0	43.1	48.0
LN97-14890	43.5	50.7	37.9	51.4	44.7	34.2
LN97-14926	48.1	52.8	39.1	61.9	41.3	36.6
M91-153087	42.1	55.4	36.3	51.5	33.8	18.8
ORC 9905	50.7	60.3	38.0	60.5	43.4	49.6
ORC 9906	51.5	58.5	45.4	64.8	49.4	44.8
SD97-157	46.1	55.3	36.3	55.6	43.5	26.5
SD97-230	46.9	57.9	41.7	58.2	37.3	37.0
SD97-330	48.1	55.9	44.0	54.5	43.3	32.2
SD97-456	48.5	57.7	42.8	51.0	44.0	32.6
SD97-460	46.4	56.8	42.5	51.7	42.2	32.9
SD97-580	45.1	51.4	44.6	57.0	32.8	38.0
SD97-661	43.7	51.9	38.2	54.5	42.6	28.9
SD97-1224	45.9	50.8	40.2	56.3	42.6	29.7
SD97-1850	42.6	55.0	38.6	45.0	38.7	23.6
C.V. (%)		6.3	8.2	8.6	5.9	8.0
L.S.D. (5%)		7.0	6.7	9.3	5.1	8.8
Row Sp. (In.)		27	27	30	24	15
Rows/Plot		4	4	4	4	6
Reps		2	2	2	2	2

PRELIMINARY TEST IIB, 2000

YIELD (bu/a)

Strain	Goehner NE	Hoytville OH	Harrow Ont.	Beresford SD	Brooking SD
IA2021 (II)	67.2	48.6	71.9	47.1	24.8
IA2050 (I)	63.6	30.8	55.1	49.6	35.7
IA2052 (L)	69.8	52.6	57.8	53.8	38.3
C1997	51.6	51.1	61.9	44.6	32.1
C1998	56.1	34.2	60.6	39.4	26.1
C2001	52.9	44.6	59.6	44.9	29.3
C2002	48.5	43.9	56.4	38.3	25.8
C2005	58.2	44.1	63.0	47.5	29.7
E98050	60.9	55.3	62.2	48.8	32.4
E98076	60.2	44.2	59.5	47.4	31.9
E98083	55.1	26.0	49.9	42.4	30.6
E98131	61.8	42.7	51.1	48.5	31.0
E98170	59.7	39.2	45.6	44.6	29.5
E98192	62.7	40.9	53.4	47.5	30.7
E98197	55.1	34.9	53.1	48.5	25.5
E98250	53.3	48.5	55.2	48.5	27.3
LN97-14890	59.9	39.8	52.1	40.9	23.5
LN97-14926	59.5	54.9	55.0	47.4	33.1
M91-153087	58.6	39.0	45.9	44.8	36.8
ORC 9905	66.1	52.0	60.0	48.7	28.2
ORC 9906	68.1	45.8	53.3	48.9	35.8
SD97-157	60.8	42.2	58.1	52.1	30.6
SD97-230	57.8	46.0	61.6	44.6	27.3
SD97-330	62.1	35.9	62.7	52.4	38.5
SD97-456	62.8	54.3	54.1	48.9	37.1
SD97-460	63.5	38.5	60.9	47.9	27.2
SD97-580	53.3	44.6	58.5	43.7	27.3
SD97-661	55.8	32.5	55.1	44.0	33.7
SD97-1224	69.1	40.4	51.4	46.4	32.0
SD97-1850	52.8	37.5	60.9	40.9	33.1
C.V. (%)	6.8	9.4	8.1	7.4	17.6
L.S.D. (5%)	8.2	6.8	7.8	7.0	11.0
Row Sp. (In.)	30	7.5	18	30	30
Rows/Plot	4	8	5	4	4
Reps	2	2	2	2	2

PRELIMINARY TEST IIB, 2000

YIELD RANK

Strain	Yield Rank	Ames IA	Rippey IA	Urbana IL	Lafayette IN	East Lansing MI
IA2021 (II)	6	14	11	23	25	9
IA2050 (I)	8	1	4	2	6	21
IA2052 (L)	1	11	1	4	3	8
C1997	22	30	30	27	24	18
C1998	28	17	15	30	23	23
C2001	20	29	25	28	13	12
C2002	22	24	12	17	20	10
C2005	5	9	18	15	4	2
E98050	11	21	22	29	9	6
E98076	4	20	6	10	1	4
E98083	30	18	26	24	21	27
E98131	26	19	10	25	29	30
E98170	21	16	23	22	15	14
E98192	12	4	23	13	5	7
E98197	19	8	14	16	18	16
E98250	15	28	29	14	14	3
LN97-14890	25	27	21	20	7	17
LN97-14926	9	22	16	3	22	15
M91-153087	29	12	27	19	28	29
ORC 9905	3	2	20	5	11	1
ORC 9906	2	3	2	1	2	5
SD97-157	16	13	27	9	10	26
SD97-230	13	5	9	6	27	13
SD97-330	9	10	5	11	12	22
SD97-456	6	6	7	21	8	20
SD97-460	14	7	8	18	19	19
SD97-580	18	25	3	7	30	11
SD97-661	24	23	19	11	16	25
SD97-1224	17	26	13	8	16	24
SD97-1850	26	15	17	26	26	28

PRELIMINARY TEST IIB, 2000

YIELD RANK

Strain	Goehner NE	Hoytville OH	Harrow Ont.	Beresford SD	Brooking SD
IA2021 (II)	4	7	1	17	29
IA2050 (I)	6	29	18	4	6
IA2052 (L)	1	4	15	1	2
C1997	29	6	5	21	11
C1998	21	27	9	29	26
C2001	27	11	11	19	20
C2002	30	15	16	30	27
C2005	19	14	2	13	18
E98050	12	1	4	7	10
E98076	14	13	12	15	13
E98083	24	30	28	26	16
E98131	11	16	27	9	14
E98170	16	21	30	21	19
E98192	9	18	22	13	15
E98197	23	26	24	9	28
E98250	25	8	17	9	22
LN97-14890	15	20	25	27	30
LN97-14926	17	2	20	15	8
M91-153087	18	22	29	20	4
ORC 9905	5	5	10	8	21
ORC 9906	3	10	23	5	5
SD97-157	13	17	14	3	16
SD97-230	20	9	6	21	22
SD97-330	10	25	3	2	1
SD97-456	8	3	21	5	3
SD97-460	7	23	7	12	25
SD97-580	26	11	13	25	22
SD97-661	22	28	19	24	7
SD97-1224	2	19	26	18	12
SD97-1850	28	24	8	27	8

PRELIMINARY TEST IIB, 2000

MATURITY (date)

Strain	Mean 9 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN	East Lansing MI
IA2021 (II)	09/12	09/08		08/27	09/02	10/01
IA2050 (I)	-0.4	1		0	0	-1
IA2052 (L)	1.5	3		6	1	1
C1997	3.2	3		5	5	0
C1998	4.2	3		8	7	5
C2001	5.4	4		9	9	5
C2002	4.7	4		7	9	4
C2005	5.1	3		10	10	6
E98050	1.3	1		2	2	1
E98076	4.1	3		2	8	4
E98083	0.8	1		1	2	-2
E98131	-3.8	-4		-4	-5	-17
E98170	-2.5	-6		-5	-3	-1
E98192	4.9	4		9	10	1
E98197	2.3	1		6	6	4
E98250	1.4	2		0	1	2
LN97-14890	7.0	5		10	10	4
LN97-14926	8.0	7		11	9	7
M91-153087	-1.6	-3		-4	-6	-2
ORC 9905	2.5	2		5	3	2
ORC 9906	4.7	5		8	8	3
SD97-157	-0.4	1		-2	0	1
SD97-230	-0.2	1		-1	-2	2
SD97-330	0.0	2		2	-1	-1
SD97-456	2.1	2		2	3	1
SD97-460	-2.3	-5		-4	-5	-1
SD97-580	-1.4	2		-3	-4	-2
SD97-661	2.2	2		2	3	-1
SD97-1224	-1.1	-5		-1	-3	0
SD97-1850	-3.0	-3		-3	-2	-16
Date Planted	05/14	05/01		04/28	05/05	06/09
Days to Mature	120	130		121	120	114

PRELIMINARY TEST IIB, 2000

MATURITY (date)

Strain	Goehner NE	Hoytville OH	Harrow Ont.	Beresford SD	Brooking SD
IA2021 (II)	09/11	09/17	09/30	08/29	09/16
IA2050 (I)	1	-2	-2	1	-1
IA2052 (L)	2	1	-1	1	0
C1997	10	1	-1	4	2
C1998	7	0	1	4	3
C2001	7	4	1	5	5
C2002	7	2	1	3	5
C2005	7	3	2	2	3
E98050	1	1	0	3	2
E98076	9	1	1	5	4
E98083	2	-1	-2	3	3
E98131	0	-2	-3	2	-2
E98170	-3	-2	-4	0	0
E98192	5	4	0	4	7
E98197	0	-0	-1	2	3
E98250	2	1	0	1	4
LN97-14890	6	6	2	10	10
LN97-14926	8	11	3	7	10
M91-153087	2	-1	-4	1	2
ORC 9905	2	2	1	1	4
ORC 9906	6	3	0	6	4
SD97-157	1	-1	-2	0	-1
SD97-230	-1	-1	0	0	0
SD97-330	2	-2	-3	0	1
SD97-456	3	-1	0	5	4
SD97-460	-2	-0	-3	0	-2
SD97-580	-1	-2	-3	1	0
SD97-661	9	1	0	2	3
SD97-1224	3	-1	-3	1	-1
SD97-1850	-2	-2	-2	2	1
Date Planted	05/24	05/16	06/05	05/09	05/05
Days to Mature	110	124	117	112	134

PRELIMINARY TEST IIB, 2000

LODGING (score)

Strain	Mean 10 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN	East Lansing MI
IA2021 (II)	1.5	1.5	1.5	1.0	1.0	2.0
IA2050 (I)	1.4	1.5	1.5	1.3	1.0	1.0
IA2052 (L)	1.5	1.8	1.5	1.0	1.8	1.5
C1997	1.5	1.5	1.5	1.0	1.0	2.0
C1998	1.7	1.5	1.5	1.5	1.5	2.0
C2001	1.4	1.3	1.5	1.0	1.0	1.0
C2002	1.4	1.5	1.5	1.0	1.0	1.0
C2005	1.5	1.3	1.3	1.0	1.0	2.5
E98050	1.4	1.5	1.0	1.0	1.0	1.0
E98076	1.3	1.5	1.3	1.0	1.0	1.0
E98083	1.2	1.0	1.0	1.0	1.0	1.0
E98131	1.2	1.3	1.3	1.0	1.0	0.5
E98170	1.2	1.5	1.3	1.0	1.3	1.0
E98192	1.3	1.5	1.3	1.0	1.0	1.5
E98197	1.6	1.5	1.5	1.0	1.0	2.0
E98250	1.3	1.5	1.3	1.0	1.0	2.0
LN97-14890	1.4	1.5	1.5	1.0	1.0	1.0
LN97-14926	1.6	1.5	1.5	1.0	1.3	1.5
M91-153087	1.4	1.5	1.5	1.0	1.3	1.0
ORC 9905	1.4	1.5	1.5	1.0	1.0	1.0
ORC 9906	1.2	1.5	1.5	1.0	1.0	1.0
SD97-157	1.3	1.5	1.0	1.0	1.0	1.0
SD97-230	1.3	1.0	1.5	1.0	1.8	2.0
SD97-330	1.7	1.8	1.5	1.3	1.8	2.0
SD97-456	1.5	1.5	1.8	1.0	1.3	2.5
SD97-460	1.5	1.5	1.5	1.0	1.5	1.5
SD97-580	2.0	2.5	1.8	1.3	3.8	2.5
SD97-661	1.5	1.5	1.5	1.0	1.5	2.0
SD97-1224	1.4	1.8	1.3	1.0	1.0	1.0
SD97-1850	1.2	1.3	1.0	1.0	1.0	0.5

PRELIMINARY TEST IIB, 2000

LODGING (score)

Strain	Goehner NE	Hoytville OH	Harrow Ont.	Beresford SD	Brooking SD
IA2021 (II)	1.5	1.3	1.0	2.0	2.0
IA2050 (I)	1.5	1.2	1.0	2.0	2.0
IA2052 (L)	1.5	1.2	1.0	2.0	2.0
C1997	1.5	1.3	1.0	2.0	2.0
C1998	2.0	1.4	1.5	2.0	2.0
C2001	1.5	1.3	1.0	2.0	2.0
C2002	2.0	1.4	1.5	1.0	2.0
C2005	1.5	1.3	1.0	2.0	2.0
E98050	2.0	1.3	1.0	2.0	2.0
E98076	1.5	1.2	1.0	2.0	2.0
E98083	1.5	1.2	1.0	1.0	2.0
E98131	1.0	1.3	1.0	2.0	2.0
E98170	1.0	1.2	1.0	1.0	2.0
E98192	1.0	1.3	1.0	1.0	2.0
E98197	2.0	1.3	1.5	2.0	2.0
E98250	1.0	1.2	1.0	1.0	2.0
LN97-14890	1.0	1.3	2.0	2.0	2.0
LN97-14926	2.0	1.3	2.0	2.0	2.0
M91-153087	2.0	1.2	1.0	1.0	2.0
ORC 9905	1.5	1.3	1.0	2.0	2.0
ORC 9906	1.0	1.3	1.0	1.0	2.0
SD97-157	1.0	1.2	1.0	2.0	2.0
SD97-230	1.0	1.3	1.0	1.0	1.0
SD97-330	2.5	1.3	1.0	2.0	2.0
SD97-456	2.0	1.3	1.0	1.0	2.0
SD97-460	2.0	1.2	1.0	2.0	2.0
SD97-580	2.5	1.2	1.0	2.0	1.0
SD97-661	2.5	1.3	1.5	1.0	1.0
SD97-1224	2.0	1.3	1.0	2.0	2.0
SD97-1850	1.5	1.2	1.0	2.0	2.0

PRELIMINARY TEST IIB, 2000

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN	East Lansing MI
IA2021 (II)	27	33	30	28	28	25
IA2050 (I)	28	36	30	29	31	25
IA2052 (L)	33	40	38	34	35	28
C1997	31	36	33	31	33	25
C1998	33	36	38	31	36	31
C2001	32	37	35	34	34	28
C2002	34	43	38	34	35	31
C2005	32	36	35	32	33	34
E98050	31	38	33	32	33	30
E98076	32	39	36	31	34	27
E98083	31	35	33	33	32	24
E98131	27	36	33	29	31	13
E98170	30	39	33	30	31	27
E98192	30	36	32	30	32	30
E98197	33	40	36	34	32	30
E98250	34	41	33	37	36	34
LN97-14890	29	33	32	30	34	26
LN97-14926	30	35	33	28	33	25
M91-153087	33	43	38	35	34	24
ORC 9905	30	37	31	32	34	31
ORC 9906	31	38	32	31	32	28
SD97-157	29	38	33	28	32	26
SD97-230	28	38	32	26	32	26
SD97-330	30	35	33	30	32	27
SD97-456	31	34	33	29	31	28
SD97-460	29	33	32	28	32	27
SD97-580	33	39	38	34	34	31
SD97-661	32	40	35	32	34	28
SD97-1224	32	40	35	32	37	29
SD97-1850	29	38	31	30	34	15

PRELIMINARY TEST IIB, 2000

PLANT HEIGHT (inches)

Strain	Goehner NE	Hoytville OH	Harrow Ont.	Beresford SD	Brooking SD
IA2021 (II)	37	21	28	26	18
IA2050 (I)	36	18	28	29	22
IA2052 (L)	43	22	29	33	30
C1997	42	25	29	28	28
C1998	46	23	30	30	30
C2001	41	24	31	30	28
C2002	42	26	33	33	30
C2005	42	23	31	30	30
E98050	39	24	29	30	26
E98076	41	20	31	33	31
E98083	47	22	25	32	30
E98131	36	21	22	31	22
E98170	38	20	28	30	26
E98192	39	21	26	27	26
E98197	43	23	26	34	30
E98250	46	21	31	35	30
LN97-14890	39	25	25	28	24
LN97-14926	40	25	26	29	28
M91-153087	44	21	26	33	30
ORC 9905	38	22	28	25	22
ORC 9906	40	21	26	28	31
SD97-157	40	19	28	27	24
SD97-230	36	20	24	29	20
SD97-330	37	17	31	27	31
SD97-456	39	25	25	31	31
SD97-460	38	21	28	29	22
SD97-580	43	23	34	32	28
SD97-661	44	20	28	32	24
SD97-1224	46	18	27	31	30
SD97-1850	42	20	25	28	31

PRELIMINARY TEST IIB, 2000

SEED SIZE (g/100)

Strain	Mean 10 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN	East Lansing MI
IA2021 (II)	15.2	15.3	14.2	14.7	13.0	15.6
IA2050 (I)	14.8	15.4	15.2	15.1	14.5	12.9
IA2052 (L)	13.8	13.4	13.7	14.5	12.2	11.9
C1997	14.7	15.2	14.8	15.4	14.0	13.6
C1998	13.4	14.7	13.4	13.2	13.4	14.5
C2001	14.7	15.0	14.5	14.6	13.9	15.3
C2002	13.8	14.4	14.0	14.2	13.1	13.3
C2005	14.1	14.9	13.8	14.3	13.0	15.2
E98050	15.5	16.2	15.0	16.7	13.5	16.9
E98076	14.7	14.7	13.8	16.8	13.9	15.0
E98083	15.1	16.8	14.7	16.4	14.2	14.3
E98131	18.4	19.0	18.8	19.5	14.0	15.7
E98170	17.1	17.7	17.3	17.3	15.8	15.7
E98192	14.6	15.1	14.5	16.2	13.2	13.7
E98197	14.2	14.8	14.3	14.9	13.5	13.7
E98250	14.7	15.5	14.1	14.3	13.0	14.5
LN97-14890	15.2	15.7	15.4	15.6	14.5	15.1
LN97-14926	14.5	15.1	14.5	15.5	14.5	14.1
M91-153087	14.8	15.7	15.0	14.8	11.3	13.8
ORC 9905	13.0	13.0	12.7	13.0	12.1	13.0
ORC 9906	13.7	14.1	13.3	14.3	12.2	13.0
SD97-157	14.4	14.4	14.0	15.0	13.2	12.6
SD97-230	16.2	16.1	16.2	17.4	14.2	14.9
SD97-330	15.7	15.9	15.3	15.4	12.9	15.2
SD97-456	12.4	13.7	12.1	12.3	11.7	11.9
SD97-460	15.0	15.0	14.6	15.9	12.6	13.6
SD97-580	15.0	15.6	15.1	15.9	12.3	13.3
SD97-661	14.8	14.0	14.5	16.6	13.7	13.4
SD97-1224	13.8	14.0	13.6	15.0	12.3	13.1
SD97-1850	14.2	14.6	13.5	13.7	12.5	14.0

PRELIMINARY TEST IIB, 2000

SEED SIZE (g/100)

Strain	Goehner NE	Hoytville OH	Harrow Ont.	Beresford SD	Brooking SD
IA2021 (II)	15.7	18.1	17.4	14.5	13.4
IA2050 (I)	15.1	14.4	16.2	15.4	14.0
IA2052 (L)	14.7	16.2	13.8	14.5	13.2
C1997	15.4	14.6	16.2	15.3	12.9
C1998	13.3	12.9	15.1	12.0	11.5
C2001	14.3	14.5	17.2	14.8	12.3
C2002	13.9	14.2	15.3	13.0	12.9
C2005	14.2	14.6	16.0	13.5	11.9
E98050	15.0	15.0	17.9	14.9	13.5
E98076	14.7	14.8	16.1	14.4	12.5
E98083	15.6	16.1	15.5	14.3	13.2
E98131	20.2	21.7	19.7	19.5	15.8
E98170	18.0	18.1	18.2	16.5	16.0
E98192	15.2	14.2	15.6	14.9	13.1
E98197	14.1	14.8	15.4	14.5	12.1
E98250	13.5	18.0	15.5	14.9	13.3
LN97-14890	15.2	15.9	16.7	14.3	13.9
LN97-14926	14.6	14.0	15.3	15.3	12.4
M91-153087	15.8	16.2	16.1	14.9	14.7
ORC 9905	12.9	14.6	13.5	13.5	11.9
ORC 9906	14.9	15.1	14.3	12.9	12.7
SD97-157	14.1	17.3	15.1	16.0	12.3
SD97-230	15.5	18.2	17.6	15.9	16.4
SD97-330	16.0	16.7	18.6	15.6	15.1
SD97-456	12.6	12.6	13.2	12.2	11.3
SD97-460	16.4	16.9	16.2	14.6	14.2
SD97-580	16.4	16.8	16.1	14.8	13.9
SD97-661	15.0	15.8	15.8	15.3	13.9
SD97-1224	14.2	15.0	13.6	14.1	13.4
SD97-1850	14.2	15.7	15.6	15.3	12.9

PRELIMINARY TEST IIB, 2000

PROTEIN (%)

Strain	Mean 4 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN
IA2021 (II)	39.5	39.1	38.8	40.8	39.5
IA2050 (I)	41.8	41.8	41.3	41.9	42.1
IA2052 (L)	43.0	43.8	43.1	42.7	42.2
C1997	42.5	42.9	41.3	42.4	43.6
C1998	47.7	47.1	46.9	46.7	49.9
C2001	45.4	45.4	44.4	45.5	46.3
C2002	45.8	46.5	44.3	45.9	46.6
C2005	42.7	41.8	42.3	43.5	43.4
E98050	41.4	41.5	40.7	41.3	42.2
E98076	39.3	39.5	37.5	41.0	39.4
E98083	40.4	40.8	39.5	40.7	40.5
E98131	41.2	42.9	38.8	41.8	41.3
E98170	42.6	42.3	41.3	43.6	43.2
E98192	39.3	39.0	36.8	40.1	41.3
E98197	40.1	38.9	39.8	40.5	41.1
E98250	42.4	43.6	40.7	43.1	42.1
LN97-14890	42.8	42.1	42.5	42.8	44.0
LN97-14926	42.1	41.9	40.8	42.3	43.6
M91-153087	41.7	42.7	39.9	41.9	42.4
ORC 9905	40.2	41.6	39.9	39.3	40.0
ORC 9906	40.6	40.9	38.5	41.6	41.5
SD97-157	42.5	42.2	41.9	42.3	43.6
SD97-230	42.4	42.4	42.5	41.4	43.1
SD97-330	40.6	40.8	39.8	41.6	40.3
SD97-456	41.1	41.3	40.4	40.9	41.9
SD97-460	42.0	42.2	39.7	43.0	42.9
SD97-580	39.9	40.5	38.5	39.7	41.0
SD97-661	42.2	42.4	42.3	42.0	42.2
SD97-1224	41.2	41.8	40.1	40.7	42.3
SD97-1850	41.3	41.9	39.6	42.3	41.6

PRELIMINARY TEST IIB, 2000

OIL (%)

Strain	Mean 4 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN
IA2021 (II)	21.2	20.7	21.2	21.8	20.9
IA2050 (I)	19.7	19.5	20.0	20.2	19.0
IA2052 (L)	19.7	19.4	19.4	20.4	19.5
C1997	19.3	19.2	19.5	19.6	19.0
C1998	16.6	17.2	16.4	17.1	15.8
C2001	17.1	16.9	17.5	17.1	16.9
C2002	17.3	17.1	17.7	17.5	16.8
C2005	19.1	19.1	19.2	19.2	18.7
E98050	19.6	19.3	19.8	20.4	18.9
E98076	20.3	19.9	20.5	20.2	20.5
E98083	20.3	20.4	20.7	20.5	19.4
E98131	20.5	19.6	21.6	21.0	19.8
E98170	19.0	18.9	19.5	19.1	18.5
E98192	19.2	19.2	19.5	19.4	18.7
E98197	19.0	18.8	18.9	19.5	18.8
E98250	19.5	19.1	20.1	19.6	19.2
LN97-14890	19.6	19.6	19.9	19.7	19.1
LN97-14926	19.9	19.6	20.4	19.8	19.7
M91-153087	20.2	19.6	21.0	20.9	19.3
ORC 9905	19.9	19.2	20.0	20.7	19.8
ORC 9906	20.6	19.9	21.6	20.6	20.4
SD97-157	19.6	19.3	20.0	19.7	19.5
SD97-230	18.9	18.1	19.2	20.0	18.3
SD97-330	20.8	20.3	21.1	21.1	20.8
SD97-456	20.3	19.9	20.6	21.0	19.5
SD97-460	20.0	19.7	20.5	20.4	19.4
SD97-580	21.1	20.3	21.9	22.0	20.1
SD97-661	20.1	19.5	20.2	21.0	19.9
SD97-1224	19.8	18.8	20.4	20.9	19.0
SD97-1850	19.7	19.4	19.9	20.2	19.3

Uniform Test III, 2000

	Strain	Parentage	Previous Testing	Generation Composited	Unique Traits
1.	IA3010 (III)	Jacques J285 x Northrup King S29-39	4	F5	
2.	IA2052 (II)	Northrup King S24-92 x Parker	UT II	F5	
3.	Macon (L)	Sherman x Resnik	7	F5	
4.	Stout (dt1)	Sprite 87 x HC85-6577	-	F5	dt1
5.	U96-2208 (dt1)	Colfax x A91-701035	2	F4	dt1
6.	A97-973002	LN90-4366 x IA3005	SCN UT III		SCN
7.	A98-980047	Pioneer P9321 x Northrup King S24-92	PT IIIA	F5	
8.	C1985	IA3003 x CX1345-115	PT IIIB	F5	
9.	HC94-96PR	HC85-606(4) x HC74-634REBC	2	BC3F3	dt1, Rps1-k
10.	HC94-1065	HC85-607 x HC78-676BC	1	F5	dt1
11.	HC94-1946	Charleston x HC74-634REBC	PT IIIB	F4	dt1
12.	HC95-1389	Hobbit 87 x HC87-5844	PT IIIB	F4	dt1
13.	HC95-4334	HC85-164(2) x Hobbit 87	PT IIIB	F4	dt1
14.	HC96-73PR	Charleston(5) x HC74-634REBC	PT IIIB	BC4F4	dt1
15.	HF97-011	LN88-9709 x Resnik	PT IIB	F5	
16.	HF97-076	Thorne x Iroquois	PT IIB	F5	Rps1k
17.	HF97-166	Thorne x Corsica	PT IIIA	F5	Rps1k
18.	HS97-4555	Pioneer P9268-003 x Vertex	PT IIIB	F6	Rps P I92718-2
19.	LN94-15200-97	Jack x Hartwig	SCN P III	F5	SCN
20.	LN95-5817	Jack x C1842	SCN P III	F5	SCN
21.	LN95-6415	Jack x Iroquois	SCN P III	F5	SCN
22.	LN95-6446	Jack x Iroquois	UT IV	F5	SCN
23.	U97-3114	MSBP3F6	1	F7	
24.	U97-3642	UP3YC1	1	F7	
25.	U97-201128	NE3399 x UP1Fe-95-9	PT IIIB	F5	
26.	U97-202103	U94-2229 x UP1Fe-30	PT IIIB	F5	

UNIFORM TEST III, 2000

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score		Emerg. Score	Shatter Score	PR	PS	P&SB
		Hum-boldt	Yellow Medicine Co.	Ames	Man-hattan	Laf. Race 7	Lafayette a %	Vincennes n %
IA3010 (III)	PTBSYBIlep	3.0	4.8	2.0	1.0	R	14	26
IA2052 (II)	WGBDYBflEp	4.0	4.5	2.0	1.0	H	46	10
Macon (L)	WTBSYBlIEp	4.0	4.8	2.0	1.0	S	30	4
Stout (dt1)	WTBSYBlDep	3.0	4.5	1.0	1.0	R	18	16
U96-2208 (dt1)	WGBSYBfDEp	4.0	4.5	3.0	2.0	R	10	12
A97-973002	WTBDYBIleP	4.0	4.8	2.0	2.0	R	26	22
A98-980047	PGBSYBrIEp	4.0	5.0	1.0	2.0	S	26	12
C1985	PTBSYBIlep	4.0	5.0	2.0	1.0	S	24	20
HC94-96PR	P+WTBSYBlDEp	4.0	4.5	2.0	1.0	R	0	12
HC94-1065	PTBSYBlDep	4.0	4.8	1.0	1.0	R	6	18
HC94-1946	WTBSYBlDEp	4.0	4.8	1.0	1.0	S	4	36
HC95-1389	WTBSYBrDep	4.0	4.8	2.0	2.0	S	12	14
HC95-4334	PTBSYBlDep	4.0	4.8	1.0	1.0	R	4	22
HC96-73PR	PTBSYBlDEp	4.0	4.8	1.0	1.0	R	8	18
HF97-011	P+WTBSYBrIEp	4.0	5.0	1.0	1.0	H	34	26
HF97-076	P+WGBDYBrIep	4.0	5.0	3.0	1.0	R	32	20
HF97-166	WTBSYBIlep	4.0	4.5	2.0	1.0	R	22	18
HS97-4555	PTBSYBrIEp	5.0	4.8	2.0	1.0	R	54	32
LN94-15200-97	WGBSYYIep	4.0	5.0	2.0	1.0	R	74	22
LN95-5817	PGTDYGrIep	4.0	4.8	2.0	1.0	S	40	28
LN95-6415	PGBDYIblep	4.0	4.8	2.0	1.0	R	36	28
LN95-6446	WGBDYBflep	4.0	5.0	5.0	1.0	R	40	20
U97-3114	PGBDYBlIEp	4.0	5.0	3.0	1.0	R	48	28
U97-3642	PGTDYIblep	4.0	4.8	2.0	1.0	H	22	36
U97-201128	WGBDYBIlep	4.0	4.8	2.0	1.0	S	32	12
U97-202103	PGBDYBIIH	3.0	4.3	2.0	2.0	S	28	26

UNIFORM TEST III, 2000

SDS DATA

Strain	SDS			
	Bloomington DX	Pontiac DX	Valmeyer DX	Carmi DX
IA3010 (III)	19.1	5.0		
IA2052 (II)	1.5	1.4		
Macon (L)			16.9	2.4
Stout (dt1)	2.9	0.5		
U96-2208 (dt1)	8.9	6.7		
A97-973002	5.1	0.5		
A98-980047	6.1	0.6		
C1985	13.0	5.5		
HC94-96PR			36.8	4.9
HC94-1065			31.4	13.5
HC94-1946			33.0	5.1
HC95-1389			33.2	6.0
HC95-4334			16.2	2.7
HC96-73PR			28.9	11.2
HF97-011	0.7	0.6		
HF97-076	1.5	1.2		
HF97-166			23.7	3.7
HS97-4555			32.6	4.8
LN94-15200-97	5.1	0.5		
LN95-5817	2.2	0.8		
LN95-6415	0.0	0.0		
LN95-6446			20.1	12.7
U97-3114	11.2	9.3		
U97-3642			24.2	3.4
U97-201128	3.5	1.7		
U97-202103	8.5	3.8		

UNIFORM TEST III, 2000

REGIONAL SUMMARY

No. of Tests Strain	Yield 16 bu/a	Rank 16 No.	Maturity 14 Date	Lodging 16 Score	Plant Height 15 In.	Seed Size 15 g/100	Composition Protein 5 %	 Oil 5 %
IA3010 (III)	54.1	5	9/17	1.2	29	13.6	41.0	19.4
IA2052 (II)	51.8	10	-8.5	1.8	34	14.0	43.2	19.5
Macon (L)	51.6	12	4.2	1.6	33	15.9	41.8	19.8
Stout (dt1)	49.7	21	-0.3	1.3	24	14.8	41.2	20.3
U96-2208 (dt1)	55.3	1	-4.0	1.4	25	16.5	42.0	19.8
A97-973002	51.3	15	-0.7	1.9	34	14.0	42.1	19.3
A98-980047	53.0	7	-3.6	1.6	34	13.0	43.8	17.9
C1985	49.0	24	-2.5	1.8	33	14.5	46.3	17.3
HC94-96PR	52.9	8	1.7	1.3	25	14.1	40.4	20.5
HC94-1065	54.2	3	2.9	1.2	23	13.4	39.5	20.4
HC94-1946	51.8	10	2.1	1.5	25	13.0	40.6	19.8
HC95-1389	51.5	13	4.2	1.4	24	14.2	40.6	20.0
HC95-4334	51.2	16	3.9	1.3	24	12.5	39.8	20.2
HC96-73PR	50.5	19	5.3	1.4	24	12.8	41.2	19.4
HF97-011	50.2	20	-1.0	1.7	32	15.1	42.9	20.3
HF97-076	49.2	22	0.4	1.5	32	14.1	43.5	20.0
HF97-166	52.6	9	5.4	2.0	34	15.0	43.7	19.8
HS97-4555	50.8	17	-1.6	1.8	36	14.8	42.3	19.9
LN94-15200-97	46.7	26	-1.2	2.7	38	12.5	41.7	18.9
LN95-5817	50.8	17	-0.5	1.5	34	13.5	42.4	19.1
LN95-6415	48.6	25	0.3	1.9	34	13.8	43.8	19.0
LN95-6446	49.1	23	2.6	1.9	32	13.9	43.6	19.8
U97-3114	54.5	2	-0.6	1.6	34	16.3	41.7	20.1
U97-3642	54.2	3	1.7	1.8	34	14.6	41.6	20.2
U97-201128	54.0	6	-0.3	1.6	35	14.3	42.9	19.3
U97-202103	51.4	14	-3.7	1.6	33	14.5	42.7	18.8

130.2 Days After Planting

UNIFORM TEST III, 2000

1999-2000 2-YEAR MEAN

No. of Tests Strain	Yield 38 bu/a	Rank 38 No.	Maturity 33 Date	Lodging 38 Score	Plant Height 37 In.	Seed Size 37 g/100	Composition Protein 10 %	 Oil 10 %
IA3010	54.0	2	9/20	1.2	29	13.9	40.0	19.6
Macon	51.0	7	4.6	1.5	33	15.8	41.3	19.7
U96-2208	54.4	1	-3.1	1.3	24	16.9	41.0	20.0
HC94-96R	52.5	6	1.9	1.3	23	14.4	40.1	20.5
HC94-1065	53.3	5	3.3	1.2	22	14.0	39.1	20.4
U97-3114	53.6	4	-0.2	1.6	34	16.3	40.9	20.3
U97-3642	53.7	3	1.8	1.7	34	14.8	40.7	20.4

130.8 Days After Planting

1998-2000 3-YEAR MEAN

No. of Tests Strain	61	61	52	60	59	58	15	15
IA3010	54.4	2	9/19	1.2	29	14.0	40.0	19.9
Macon	51.7	3	4.2	1.6	33	15.9	41.3	19.9
U96-2208	54.6	1	-2.7	1.3	24	17.0	40.7	20.3
HC94-96R	51.5	4	1.9	1.2	23	14.4	40.1	20.6

127.5 Days After Planting

UNIFORM TEST III, 2000

YIELD (bu/a)

Strain	Mean 16 Tests	George-* town DE	Middle-* town DE	Ames IA	Crawfords-ville IA	Newton IL
IA3010 (III)	54.1	57.1	61.6	47.9	51.0	59.3
IA2052 (II)	51.8	57.4	57.6	54.6	46.6	49.4
Macon (L)	51.6	58.2	62.4	46.1	45.4	54.1
Stout (dt1)	49.7			47.3	37.7	58.9
U96-2208 (dt1)	55.3	50.5	58.4	69.2	50.9	58.5
A97-973002	51.3			43.3	45.3	57.2
A98-980047	53.0	69.1	65.9	55.6	49.9	54.9
C1985	49.0	50.7	62.2	52.1	46.8	55.2
HC94-96PR	52.9	42.8	58.5	45.1	47.2	57.0
HC94-1065	54.2	62.8	62.8	52.3	47.9	60.7
HC94-1946	51.8	50.7	63.4	47.6	47.3	60.9
HC95-1389	51.5	43.0	55.1	42.5	46.9	59.4
HC95-4334	51.2	58.0	60.6	48.5	44.1	54.8
HC96-73PR	50.5	42.4	63.9	49.9	43.2	54.1
HF97-011	50.2	51.4	59.9	51.5	42.0	45.4
HF97-076	49.2	54.8	59.3	43.8	47.1	45.6
HF97-166	52.6	53.4	68.1	51.2	43.1	48.5
HS97-4555	50.8	55.4	61.9	52.1	51.3	51.8
LN94-15200-97	46.7			41.1	44.3	48.3
LN95-5817	50.8			51.4	45.1	51.3
LN95-6415	48.6			38.0	43.5	48.7
LN95-6446	49.1	59.8	59.9	47.3	45.6	55.1
U97-3114	54.5	56.0	60.5	55.6	55.8	55.8
U97-3642	54.2	64.0	62.4	50.0	47.8	56.6
U97-201128	54.0	60.3	66.6	49.0	51.5	56.6
U97-202103	51.4	64.1	58.9	47.3	48.2	57.2
C.V. (%)		12.0	6.9	11.9	8.0	10.3
L.S.D. (5%)		10.9	7.0	12.1	7.7	9.2
Row Sp. (in.)		15	15	27	27	30
Rows/Plot		5	5	4	4	4
Reps		3	3	2	2	3

* Data not included in the mean.

UNIFORM TEST III, 2000

YIELD (bu/a)

Strain	Urbana IL	Lafayette IN	Manhattan KS	Powhattan KS
IA3010 (III)	60.3	45.3	56.4	19.7
IA2052 (II)	56.0	45.3	56.7	21.2
Macon (L)	60.9	47.5	53.8	20.8
Stout (dt1)	55.6	39.5	51.7	17.4
U96-2208 (dt1)	67.5	46.8	51.3	19.8
A97-973002	59.2	48.8	45.3	21.0
A98-980047	54.3	40.6	50.9	19.6
C1985	49.8	43.7	44.8	20.7
HC94-96PR	65.4	48.6	57.6	19.1
HC94-1065	56.7	51.4	61.0	19.5
HC94-1946	60.2	50.7	49.1	18.6
HC95-1389	54.0	46.9	51.0	16.1
HC95-4334	57.7	45.6	50.3	17.1
HC96-73PR	56.6	48.7	53.0	15.2
HF97-011	57.3	42.5	54.0	20.1
HF97-076	49.2	45.0	50.5	22.3
HF97-166	60.0	51.1	46.9	20.2
HS97-4555	64.3	43.8	54.7	22.4
LN94-15200-97	53.9	42.8	44.7	18.7
LN95-5817	55.0	49.6	47.0	20.8
LN95-6415	57.0	44.9	52.9	22.2
LN95-6446	54.9	45.3	49.2	19.2
U97-3114	64.2	47.4	55.2	19.7
U97-3642	53.5	50.2	54.8	22.6
U97-201128	55.3	51.4	53.2	21.2
U97-202103	50.0	50.3	49.8	17.5
C.V. (%)	9.3	8.2	6.7	9.0
L.S.D. (5%)	8.8	6.2	4.7	2.4
Row Sp. (in.)	30	24	30	30
Rows/Plot	4	4	4	4
Reps	3	3	3	3

UNIFORM TEST III, 2000

YIELD (bu/a)

Strain	Queens-town MD	McCreedie MO	Goehner NE	Plymouth NE	Tekamah NE	Hoyt-ville OH
IA3010 (III)	68.5	69.5	63.8	47.9	53.3	41.3
IA2052 (II)	63.1	54.8	65.3	49.7	63.0	40.8
Macon (L)	66.9	66.2	61.2	43.1	40.3	51.1
Stout (dt1)	68.0	51.0	64.5	36.7	50.7	48.2
U96-2208 (dt1)	66.2	57.0	65.6	46.1	60.3	42.6
A97-973002	59.4	67.1	59.7	45.2	47.4	49.0
A98-980047	59.8	65.1	66.2	46.6	54.0	50.3
C1985	57.3	52.5	56.3	45.6	46.7	46.6
HC94-96PR	62.8	49.9	61.3	43.8	54.3	58.2
HC94-1065	70.5	47.5	62.2	35.0	55.6	58.1
HC94-1946	64.4	49.0	60.7	32.5	52.4	54.2
HC95-1389	63.8	62.5	63.8	42.0	49.9	53.6
HC95-4334	62.0	42.0	62.9	41.8	48.5	54.6
HC96-73PR	72.3	47.4	60.9	36.0	46.7	51.0
HF97-011	66.2	58.8	60.8	44.1	49.1	49.3
HF97-076	61.0	58.4	55.7	43.6	51.7	49.8
HF97-166	65.9	66.1	57.4	44.7	48.0	56.4
HS97-4555	59.4	53.5	59.0	43.9	50.3	46.5
LN94-15200-97	54.8	54.1	50.3	38.5	46.6	46.8
LN95-5817	64.7	68.0	60.3	41.2	55.4	39.2
LN95-6415	55.1	62.8	55.9	45.0	43.0	48.0
LN95-6446	57.6	60.2	61.3	43.9	45.3	46.6
U97-3114	63.0	60.4	65.3	47.0	60.8	52.3
U97-3642	68.6	61.1	60.7	45.1	55.0	49.5
U97-201128	66.2	66.5	62.1	49.4	55.2	45.2
U97-202103	60.0	58.0	60.8	42.9	54.9	51.4
C.V. (%)	6.7	6.8	5.3	10.8	7.3	7.5
L.S.D. (5%)	7.0	5.5	6.5	9.4	7.6	5.1
Row Sp. (in.)	24	30	30	30	30	7.5
Rows/Plot	4	4	4	4	4	8
Reps	3	3	3	3	3	3

UNIFORM TEST III, 2000

YIELD (bu/a)

Strain	Plain City OH	South Charlston OH	Wooster OH
IA3010 (III)	65.3	66.3	49.0
IA2052 (II)	51.9	67.1	43.8
Macon (L)	57.5	67.8	43.5
Stout (dt1)	56.9	66.6	44.7
U96-2208 (dt1)	70.3	71.1	41.0
A97-973002	60.3	65.6	46.4
A98-980047	60.1	72.0	47.4
C1985	61.7	58.0	46.4
HC94-96PR	60.7	68.1	47.8
HC94-1065	74.9	68.5	45.7
HC94-1946	67.2	70.0	43.5
HC95-1389	59.0	67.5	46.0
HC95-4334	63.5	78.6	46.6
HC96-73PR	63.3	68.0	42.0
HF97-011	54.5	63.7	44.7
HF97-076	62.4	57.1	43.5
HF97-166	65.8	64.6	51.8
HS97-4555	52.6	67.5	40.5
LN94-15200-97	59.1	64.4	38.9
LN95-5817	61.1	62.2	40.1
LN95-6415	54.3	64.2	41.9
LN95-6446	53.2	62.3	38.3
U97-3114	53.9	68.1	46.7
U97-3642	72.0	69.7	49.5
U97-201128	65.5	66.1	49.2
U97-202103	59.5	71.1	43.2
C.V. (%)	9.1	5.6	6.0
L.S.D. (5%)	9.4	6.4	3.7
Row Sp. (in.)	45	7.5	7.5
Rows/Plot	6	8	8
Reps	3	3	3

UNIFORM TEST III, 2000

YIELD RANK

Strain	Yield Rank	George-* town DE	Middle-* town DE	Ames IA	Crawfords-ville IA	Newton IL
IA3010 (III)	5	10	11	15	4	4
IA2052 (II)	10	9	20	4	15	21
Macon (L)	12	7	7	20	17	18
Stout (dt1)	21			17	26	5
U96-2208 (dt1)	1	18	19	1	5	6
A97-973002	15			23	18	7
A98-980047	7	1	3	2	6	15
C1985	24	16	9	6	14	13
HC94-96PR	8	20	18	21	11	9
HC94-1065	3	4	6	5	8	2
HC94-1946	10	16	5	16	10	1
HC95-1389	13	19	21	24	13	3
HC95-4334	16	8	12	14	21	16
HC96-73PR	19	21	4	12	23	17
HF97-011	20	15	14	8	25	26
HF97-076	22	13	16	22	12	25
HF97-166	9	14	1	10	24	23
HS97-4555	17	12	10	6	3	19
LN94-15200-97	26			25	20	24
LN95-5817	17			9	19	20
LN95-6415	25			26	22	22
LN95-6446	23	6	14	17	16	14
U97-3114	2	11	13	2	1	12
U97-3642	3	3	8	11	9	10
U97-201128	6	5	8	13	2	10
U97-202103	14	2	17	17	7	7

* Data not included in the mean.

UNIFORM TEST III, 2000

YIELD RANK

Strain	Urbana IL	Lafayette IN	Manhattan KS	Powhattan KS
IA3010 (III)	6	16	4	14
IA2052 (II)	15	16	3	5
Macon (L)	5	11	9	8
Stout (dt1)	16	26	13	23
U96-2208 (dt1)	1	14	14	13
A97-973002	9	8	24	7
A98-980047	20	25	16	16
C1985	25	22	25	10
HC94-96PR	2	10	2	19
HC94-1065	13	1	1	17
HC94-1946	7	4	21	21
HC95-1389	21	13	15	25
HC95-4334	10	15	18	24
HC96-73PR	14	9	11	26
HF97-011	11	24	8	12
HF97-076	26	19	17	3
HF97-166	8	3	23	11
HS97-4555	3	21	7	2
LN94-15200-97	22	23	26	20
LN95-5817	18	7	22	8
LN95-6415	12	20	12	4
LN95-6446	19	16	20	18
U97-3114	4	12	5	14
U97-3642	23	6	6	1
U97-201128	17	1	10	5
U97-202103	24	5	19	22

UNIFORM TEST III, 2000

YIELD RANK

Strain	Queens-town MD	McCreedie MO	Goehner NE	Plymouth NE	Tekamah NE	Hoyt-ville OH
IA3010 (III)	4	1	7	3	11	24
IA2052 (II)	14	17	4	1	1	25
Macon (L)	6	5	13	17	26	9
Stout (dt1)	5	21	5	23	14	16
U96-2208 (dt1)	7	16	2	6	3	23
A97-973002	21	3	20	8	20	15
A98-980047	20	7	1	5	10	11
C1985	24	20	23	7	21	19
HC94-96PR	16	22	12	15	9	1
HC94-1065	2	24	9	25	4	2
HC94-1946	12	23	17	26	12	5
HC95-1389	13	9	6	19	16	6
HC95-4334	17	26	8	20	18	4
HC96-73PR	1	25	14	24	22	10
HF97-011	7	13	16	12	17	14
HF97-076	18	14	25	16	13	12
HF97-166	10	6	22	11	19	3
HS97-4555	21	19	21	14	15	21
LN94-15200-97	26	18	26	22	23	18
LN95-5817	11	2	19	21	5	26
LN95-6415	25	8	24	10	25	17
LN95-6446	23	12	11	13	24	19
U97-3114	15	11	3	4	2	7
U97-3642	3	10	18	9	7	13
U97-201128	7	4	10	2	6	22
U97-202103	19	15	15	18	8	8

UNIFORM TEST III, 2000

YIELD RANK

Strain	Plain City OH	South Charlston OH	Wooster OH
IA3010 (III)	7	16	4
IA2052 (II)	26	14	15
Macon (L)	19	11	16
Stout (dt1)	20	15	13
U96-2208 (dt1)	3	3	22
A97-973002	14	18	9
A98-980047	15	2	6
C1985	11	25	9
HC94-96PR	13	8	5
HC94-1065	1	7	12
HC94-1946	4	5	16
HC95-1389	18	12	11
HC95-4334	8	1	8
HC96-73PR	9	10	20
HF97-011	21	22	13
HF97-076	10	26	16
HF97-166	5	19	1
HS97-4555	25	12	23
LN94-15200-97	17	20	25
LN95-5817	12	24	24
LN95-6415	22	21	21
LN95-6446	24	23	26
U97-3114	23	8	7
U97-3642	2	6	2
U97-201128	6	17	3
U97-202103	16	3	19

UNIFORM TEST III, 2000

MATURITY (date)

Strain	Mean 14 Tests	George-* town DE	Middle-* town DE	Ames IA	Crawfords-ville IA	Newton IL
IA3010 (III)	09/17	09/17	10/1	09/13		09/07
IA2052 (II)	-8.5	-10	-4	-4		-7
Macon (L)	4.2	6	2	5		7
Stout (dt1)	-0.3			2		2
U96-2208 (dt1)	-4.0	-3	1	-2		-4
A97-973002	-0.7			1		-0
A98-980047	-3.6	-1	-1	-1		-0
C1985	-2.5	1	1	-1		1
HC94-96PR	1.7	1	1	3		4
HC94-1065	2.9	4	2	4		4
HC94-1946	2.1	2	3	2		3
HC95-1389	4.2	4	3	5		6
HC95-4334	3.9	4	1	8		5
HC96-73PR	5.3	6	5	7		6
HF97-011	-1.0	-1	0	2		1
HF97-076	0.4	2	-1	5		-0
HF97-166	5.4	6	2	7		7
HS97-4555	-1.6	1	0	2		-1
LN94-15200-97	-1.2			0		2
LN95-5817	-0.5			-1		2
LN95-6415	0.3			-1		0
LN95-6446	2.6	7	1	6		2
U97-3114	-0.6	2	0	2		-1
U97-3642	1.7	4	2	1		3
U97-201128	-0.3	-1	2	0		2
U97-202103	-3.7	-2	-1	0		-2
Date Planted	05/10	05/17	06/05	05/01		05/04
Days to Mature	130	123	118	135		126

* Data not included in the mean.

UNIFORM TEST III, 2000

MATURITY (date)

Strain	Urbana IL	Lafayette IN	Manhattan KS	Powhattan KS
IA3010 (III)	09/14	09/16	09/21	
IA2052 (II)	-13	-14	-1	
Macon (L)	5	3	6	
Stout (dt1)	-8	-5	4	
U96-2208 (dt1)	-7	-11	-2	
A97-973002	1	-1	-1	
A98-980047	-8	-6	-2	
C1985	-7	-4	-1	
HC94-96PR	-1	-1	3	
HC94-1065	-2	2	5	
HC94-1946	-3	1	4	
HC95-1389	0	3	7	
HC95-4334	1	1	4	
HC96-73PR	-1	6	9	
HF97-011	-5	-4	2	
HF97-076	1	-3	3	
HF97-166	3	7	6	
HS97-4555	-5	-4	3	
LN94-15200-97	-3	-3	1	
LN95-5817	-3	-4	2	
LN95-6415	3	-4	5	
LN95-6446	5	4	5	
U97-3114	-6	3	1	
U97-3642	-1	-2	1	
U97-201128	-1	-2	2	
U97-202103	-7	-5	-2	
Date Planted	04/28	05/05	05/23	
Days to Mature	139	134	121	

UNIFORM TEST III, 2000

MATURITY (date)

Strain	Queens-town MD	McCreedie MO	Goehner NE	Plymouth NE	Tekamah NE	Hoyt-ville OH
IA3010 (III)	09/27	09/15	09/23	09/14	09/22	09/30
IA2052 (II)	-3	-4	-11	-8	-6	-12
Macon (L)	7	2	7	4	5	-1
Stout (dt1)	4	-3	7	-2	1	-3
U96-2208 (dt1)	1	-3	-6	0	-3	-9
A97-973002	3	-3	-2	0	-5	-2
A98-980047	1	-4	-2	-2	-4	-8
C1985	7	-4	-3	-5	-3	-5
HC94-96PR	6	-3	7	0	2	-1
HC94-1065	8	0	7	5	1	1
HC94-1946	7	0	7	3	3	1
HC95-1389	10	2	7	6	0	3
HC95-4334	5	0	7	6	2	3
HC96-73PR	10	0	9	7	5	2
HF97-011	2	-5	-3	1	2	-6
HF97-076	4	-3	-3	3	0	-4
HF97-166	7	1	8	3	6	1
HS97-4555	4	-3	0	-1	3	-8
LN94-15200-97	4	-4	-2	-5	-4	-7
LN95-5817	6	0	-2	-1	0	-2
LN95-6415	1	-1	4	5	1	-4
LN95-6446	6	2	2	2	3	-0
U97-3114	5	-2	2	4	-3	-3
U97-3642	7	2	4	1	4	-0
U97-201128	3	-4	0	2	3	-4
U97-202103	-1	-4	-2	-6	-3	-8
Date Planted	06/08	05/08	05/24	05/13	05/16	05/16
Days to Mature	111	130	122	124	129	137

UNIFORM TEST III, 2000

MATURITY (date)

Strain	Plain City OH	South Charlston OH	Wooster OH
IA3010 (III)	09/16	09/17	09/13
IA2052 (II)	-15	-8	-13
Macon (L)	4	4	1
Stout (dt1)	5	-4	-5
U96-2208 (dt1)	0	-4	-7
A97-973002	0	-2	1
A98-980047	-4	-4	-7
C1985	-2	-3	-6
HC94-96PR	2	2	1
HC94-1065	7	1	-1
HC94-1946	4	3	-4
HC95-1389	4	4	2
HC95-4334	6	4	3
HC96-73PR	7	7	-0
HF97-011	3	-1	-4
HF97-076	3	2	-2
HF97-166	10	7	3
HS97-4555	-3	-2	-7
LN94-15200-97	6	-3	-0
LN95-5817	-1	-1	-2
LN95-6415	-2	-1	-3
LN95-6446	-1	1	0
U97-3114	-4	-3	-4
U97-3642	1	2	0
U97-201128	-1	-1	-3
U97-202103	-3	-3	-6
Date Planted	04/30	05/04	04/26
Days to Mature	139	136	140

UNIFORM TEST III, 2000

LODGING (score)

Strain	Mean 16 Tests	George-* town DE	Middle-* town DE	Ames IA	Crawfords-ville IA	Newton IL
IA3010 (III)	1.2	1.3	1.0	1.3	1.0	1.8
IA2052 (II)	1.8	2.3	2.0	1.5	2.3	3.2
Macon (L)	1.6	2.0	1.3	1.5	2.0	3.2
Stout (dt1)	1.3			1.0	1.5	2.2
U96-2208 (dt1)	1.4	1.0	1.0	1.0	1.8	3.3
A97-973002	1.9			1.5	2.3	3.7
A98-980047	1.6	3.0	2.3	1.8	2.0	3.2
C1985	1.8	1.7	3.0	1.8	2.0	3.3
HC94-96PR	1.3	1.0	2.3	1.3	1.5	1.8
HC94-1065	1.2	1.0	1.0	1.3	1.8	1.5
HC94-1946	1.5	1.0	1.0	1.3	1.5	2.7
HC95-1389	1.4	1.0	1.0	1.5	1.3	2.2
HC95-4334	1.3	1.0	1.3	1.5	1.3	1.8
HC96-73PR	1.4	1.0	1.0	1.5	1.8	2.0
HF97-011	1.7	1.7	2.7	1.0	2.0	2.8
HF97-076	1.5	2.0	2.3	1.5	1.8	2.3
HF97-166	2.0	2.3	3.0	1.5	2.5	3.7
HS97-4555	1.8	2.0	3.7	1.8	2.0	3.2
LN94-15200-97	2.7			3.0	3.3	4.2
LN95-5817	1.5			1.5	2.0	3.2
LN95-6415	1.9			1.5	2.3	3.7
LN95-6446	1.9	3.3	3.0	1.3	2.3	3.7
U97-3114	1.6	1.3	1.7	1.5	2.3	2.5
U97-3642	1.8	2.3	2.7	1.5	1.8	3.3
U97-201128	1.6	2.7	2.7	1.5	2.3	3.3
U97-202103	1.6	2.0	2.7	1.5	2.0	2.8

* Data not included in the mean.

UNIFORM TEST III, 2000

LODGING (score)

Strain	Urbana IL	Lafayette IN	Manhattan KS	Powhattan KS
IA3010 (III)	1.0	1.0	1.0	1.0
IA2052 (II)	1.0	1.3	2.0	1.0
Macon (L)	1.2	1.0	1.3	1.0
Stout (dt1)	1.0	1.0	1.0	1.0
U96-2208 (dt1)	1.0	1.0	1.0	1.0
A97-973002	1.3	1.3	1.7	1.0
A98-980047	1.2	1.5	1.0	1.0
C1985	1.5	1.7	1.7	1.0
HC94-96PR	1.0	1.0	1.0	1.0
HC94-1065	1.0	1.0	1.0	1.0
HC94-1946	1.2	1.0	1.0	1.0
HC95-1389	1.0	1.0	1.0	1.0
HC95-4334	1.0	1.0	1.0	1.0
HC96-73PR	1.0	1.0	1.0	1.0
HF97-011	1.2	1.5	1.7	1.0
HF97-076	1.0	1.2	1.3	1.0
HF97-166	1.2	1.3	2.0	1.0
HS97-4555	1.5	1.7	2.0	1.0
LN94-15200-97	2.0	2.8	3.0	2.0
LN95-5817	1.0	1.2	1.3	1.0
LN95-6415	1.0	1.5	1.7	1.0
LN95-6446	1.3	1.3	2.0	1.0
U97-3114	1.0	1.2	1.0	1.0
U97-3642	1.0	1.5	1.7	1.0
U97-201128	1.2	1.2	1.3	1.0
U97-202103	1.0	1.3	1.7	1.0

UNIFORM TEST III, 2000

LODGING (score)

Strain	Queens-town MD	McCreedie MO	Goehner NE	Plymouth NE	Tekamah NE	Hoyt-ville OH
IA3010 (III)	1.5	1.1	1.3	1.0	1.0	1.0
IA2052 (II)	3.0	2.3	1.7	1.0	1.7	1.1
Macon (L)	2.0	0.9	2.0	1.0	2.7	1.1
Stout (dtl)	2.2	0.9	1.7	1.0	1.0	1.0
U96-2208 (dtl)	2.5	0.9	1.3	1.0	1.0	1.0
A97-973002	3.0	2.1	2.0	1.0	2.0	1.1
A98-980047	2.3	0.9	1.3	1.0	2.3	1.0
C1985	3.2	1.2	2.0	1.0	1.3	1.4
HC94-96PR	2.0	0.6	1.3	1.0	1.0	1.0
HC94-1065	2.0	0.7	1.0	1.0	1.0	1.0
HC94-1946	2.0	0.9	2.0	1.0	1.0	1.0
HC95-1389	2.7	0.8	1.0	1.0	1.0	1.1
HC95-4334	2.0	0.8	1.7	1.0	1.0	1.1
HC96-73PR	2.0	0.6	1.7	1.0	1.0	1.0
HF97-011	2.5	2.2	1.7	1.0	2.3	1.1
HF97-076	2.7	1.5	2.0	1.0	1.7	1.0
HF97-166	2.8	2.8	3.0	1.0	2.0	1.0
HS97-4555	3.2	1.5	1.7	1.0	2.0	1.1
LN94-15200-97	3.8	3.3	3.0	1.0	3.0	2.1
LN95-5817	2.5	1.4	1.3	1.0	1.7	1.0
LN95-6415	3.2	1.8	2.0	2.0	2.7	1.0
LN95-6446	3.3	2.3	2.0	1.0	2.7	1.0
U97-3114	3.3	1.3	1.7	1.0	1.0	1.1
U97-3642	3.3	3.1	2.0	1.0	1.3	1.3
U97-201128	2.3	1.3	1.7	1.0	1.7	1.1
U97-202103	1.8	1.1	2.0	1.0	2.0	1.0

UNIFORM TEST III, 2000

LODGING (score)

Strain	Plain City OH	South Charlston OH	Wooster OH
IA3010 (III)	1.2	1.0	1.3
IA2052 (II)	2.1	1.5	1.6
Macon (L)	1.3	1.3	1.6
Stout (dt1)	1.9	1.2	1.6
U96-2208 (dt1)	1.6	1.3	1.2
A97-973002	2.2	1.7	1.8
A98-980047	1.7	1.8	1.3
C1985	1.9	1.5	1.7
HC94-96PR	1.8	1.7	1.7
HC94-1065	1.3	1.2	1.4
HC94-1946	1.9	2.5	1.5
HC95-1389	2.6	1.8	1.6
HC95-4334	1.6	1.8	1.4
HC96-73PR	1.9	2.8	1.6
HF97-011	1.7	2.2	1.5
HF97-076	1.3	1.5	1.4
HF97-166	2.3	1.8	1.4
HS97-4555	2.6	1.5	1.8
LN94-15200-97	2.0	2.8	2.1
LN95-5817	1.2	1.2	1.2
LN95-6415	1.8	1.3	1.8
LN95-6446	1.8	1.2	1.7
U97-3114	1.9	1.5	1.8
U97-3642	1.3	1.5	1.8
U97-201128	1.6	1.3	1.7
U97-202103	1.9	1.3	1.5

UNIFORM TEST III, 2000

PLANT HEIGHT (inches)

Strain	Mean 15 Tests	George-* town DE	Middle-* town DE	Ames IA	Crawfords-ville IA	Newton IL
IA3010 (III)	29	27	28	33	27	34
IA2052 (II)	34	34	32	40	28	40
Macon (L)	33	31	33	39	33	35
Stout (dt1)	24			25	23	29
U96-2208 (dt1)	25	19	25	26	24	29
A97-973002	34			39	34	38
A98-980047	34	33	33	38	31	39
C1985	33	32	32	35	33	40
HC94-96PR	25	22	30	25	25	28
HC94-1065	23	19	23	24	23	29
HC94-1946	25	21	23	25	26	31
HC95-1389	24	18	24	23	24	30
HC95-4334	24	23	24	27	22	30
HC96-73PR	24	19	22	27	23	28
HF97-011	32	27	31	38	30	35
HF97-076	32	31	34	34	31	34
HF97-166	34	31	32	38	32	35
HS97-4555	36	31	35	40	39	40
LN94-15200-97	38			43	37	44
LN95-5817	34			40	29	37
LN95-6415	34			37	32	34
LN95-6446	32	33	32	38	31	37
U97-3114	34	30	29	38	34	38
U97-3642	34	31	34	36	31	39
U97-201128	35	35	34	37	35	39
U97-202103	33	34	34	38	31	38

* Data not included in the mean.

UNIFORM TEST III, 2000

PLANT HEIGHT (inches)

Strain	Urbana IL	Lafayette IN	Manhattan KS	Powhattan KS
IA3010 (III)	28	31	33	25
IA2052 (II)	37	36	41	35
Macon (L)	34	36	35	30
Stout (dt1)	27	23	27	20
U96-2208 (dt1)	27	28	31	23
A97-973002	34	34	37	33
A98-980047	36	33	38	34
C1985	33	32	37	33
HC94-96PR	26	26	30	20
HC94-1065	24	24	27	18
HC94-1946	26	27	26	20
HC95-1389	27	25	31	20
HC95-4334	27	25	28	23
HC96-73PR	25	24	27	20
HF97-011	32	34	34	32
HF97-076	32	33	41	28
HF97-166	33	35	39	31
HS97-4555	36	39	41	34
LN94-15200-97	37	41	43	40
LN95-5817	35	37	39	32
LN95-6415	36	39	39	33
LN95-6446	30	35	38	32
U97-3114	36	35	36	33
U97-3642	34	39	42	34
U97-201128	34	39	42	32
U97-202103	32	38	38	30

UNIFORM TEST III, 2000

PLANT HEIGHT (inches)

Strain	Queens-town MD	McCreedie MO	Goehner NE	Plymouth NE	Tekamah NE	Hoyt-ville OH
IA3010 (III)	29	34	35	29		18
IA2052 (II)	36	37	43	30		20
Macon (L)	35	36	41	32		23
Stout (dt1)	24	20	29	23		16
U96-2208 (dt1)	29	20	27	29		16
A97-973002	33	38	40	38		24
A98-980047	35	35	42	37		21
C1985	34	36	40	32		24
HC94-96PR	23	20	30	25		18
HC94-1065	25	19	26	21		17
HC94-1946	24	18	31	26		18
HC95-1389	23	24	28	19		17
HC95-4334	25	20	30	22		19
HC96-73PR	23	17	29	23		17
HF97-011	31	35	36	31		23
HF97-076	34	36	38	32		20
HF97-166	35	39	40	35		27
HS97-4555	36	38	45	32		23
LN94-15200-97	40	38	43	36		29
LN95-5817	35	40	41	32		22
LN95-6415	33	37	43	34		24
LN95-6446	32	32	41	28		22
U97-3114	34	33	40	32		23
U97-3642	36	33	39	33		26
U97-201128	35	38	43	36		22
U97-202103	32	34	43	32		23

UNIFORM TEST III, 2000

PLANT HEIGHT (inches)

Strain	Plain City OH	South Charlston OH	Wooster OH
IA3010 (III)	29	29	20
IA2052 (II)	31	33	22
Macon (L)	31	34	24
Stout (dt1)	25	24	20
U96-2208 (dt1)	24	29	18
A97-973002	34	33	25
A98-980047	32	34	24
C1985	32	33	24
HC94-96PR	25	27	20
HC94-1065	25	27	19
HC94-1946	26	27	22
HC95-1389	24	27	22
HC95-4334	23	26	20
HC96-73PR	25	27	21
HF97-011	32	33	26
HF97-076	31	31	21
HF97-166	31	36	25
HS97-4555	34	35	22
LN94-15200-97	39	33	30
LN95-5817	28	33	23
LN95-6415	32	32	22
LN95-6446	30	29	23
U97-3114	33	34	25
U97-3642	33	35	24
U97-201128	34	35	25
U97-202103	34	33	26

UNIFORM TEST III, 2000

SEED SIZE (g/100)

Strain	Mean 15 Tests	George-town DE	Middle-town DE	Ames IA	Crawfords-ville IA	Newton IL
IA3010 (III)	13.6			12.8	14.2	13.8
IA2052 (II)	14.0			13.2	12.9	12.6
Macon (L)	15.9			15.5	16.4	15.3
Stout (dt1)	14.8			15.0	14.2	15.3
U96-2208 (dt1)	16.5			16.0	15.3	15.8
A97-973002	14.0			13.3	15.0	14.7
A98-980047	13.0			13.6	13.7	12.5
C1985	14.5			15.0	14.4	13.6
HC94-96PR	14.1			14.5	14.1	14.0
HC94-1065	13.4			13.4	13.5	13.1
HC94-1946	13.0			12.5	13.0	12.7
HC95-1389	14.2			13.2	14.6	13.7
HC95-4334	12.5			12.8	12.0	12.1
HC96-73PR	12.8			12.4	12.6	12.5
HF97-011	15.1			14.8	14.8	13.9
HF97-076	14.1			13.8	13.8	13.2
HF97-166	15.0			14.9	15.9	12.7
HS97-4555	14.8			14.7	15.4	13.5
LN94-15200-97	12.5			12.7	13.0	11.2
LN95-5817	13.5			14.0	14.5	13.8
LN95-6415	13.8			12.8	14.8	12.7
LN95-6446	13.9			14.1	14.4	14.0
U97-3114	16.3			15.3	16.3	15.5
U97-3642	14.6			13.3	14.6	14.1
U97-201128	14.3			14.0	15.2	13.7
U97-202103	14.5			14.2	14.8	13.9

UNIFORM TEST III, 2000

SEED SIZE (g/100)

Strain	Urbana IL	Lafayette IN	Manhattan KS	Powhattan KS
IA3010 (III)	13.5	12.6	14.3	11.0
IA2052 (II)	13.7	11.6	16.2	10.9
Macon (L)	16.3	15.8	17.6	12.1
Stout (dt1)	13.7	14.5	16.8	10.1
U96-2208 (dt1)	15.7	14.0	20.6	13.8
A97-973002	14.2	12.7	14.9	11.1
A98-980047	12.2	11.6	14.3	10.3
C1985	12.6	13.4	17.5	11.7
HC94-96PR	13.3	14.8	15.2	11.4
HC94-1065	11.2	13.5	15.7	10.9
HC94-1946	11.4	12.9	14.9	10.8
HC95-1389	12.4	13.7	16.0	11.5
HC95-4334	11.5	12.2	13.7	10.3
HC96-73PR	12.3	12.6	13.9	10.5
HF97-011	14.3	14.9	16.9	11.4
HF97-076	14.3	14.0	16.2	12.1
HF97-166	14.2	14.7	16.1	11.9
HS97-4555	15.2	14.8	16.6	11.3
LN94-15200-97	11.5	12.2	13.3	10.2
LN95-5817	12.8	14.2	12.7	10.7
LN95-6415	13.8	13.9	15.3	10.7
LN95-6446	13.5	13.5	15.7	11.8
U97-3114	15.5	17.1	17.7	12.6
U97-3642	12.7	14.0	16.3	11.7
U97-201128	13.8	14.5	17.7	10.1
U97-202103	12.5	13.3	16.8	11.2

UNIFORM TEST III, 2000

SEED SIZE (g/100)

Strain	Queens-town MD	McCreedie MO	Goehner NE	Plymouth NE	Tekamah NE	Hoyt-ville OH
IA3010 (III)	15.4	14.0	12.9	12.7	13.4	13.3
IA2052 (II)	16.8	15.0	14.3	14.3	13.7	15.2
Macon (L)	19.3	17.0	15.1	13.6	16.1	15.0
Stout (dt1)	17.7	17.0	14.1	13.0	14.4	14.9
U96-2208 (dt1)	20.5	16.0	15.6	15.7	15.9	19.0
A97-973002	17.0	15.0	13.3	12.0	13.5	13.4
A98-980047	14.9	13.0	12.4	12.0	12.9	14.0
C1985	17.9	14.0	13.9	13.8	13.4	14.5
HC94-96PR	16.3	13.0	13.0	12.6	13.5	14.4
HC94-1065	16.2	14.0	12.3	11.6	12.2	14.0
HC94-1946	15.9	13.0	13.1	11.3	11.9	13.8
HC95-1389	17.2	14.0	13.6	12.8	13.4	15.1
HC95-4334	15.1	13.0	11.8	10.2	10.4	12.8
HC96-73PR	16.0	12.0	12.8	10.2	11.5	13.3
HF97-011	18.3	16.0	14.3	13.7	15.7	14.7
HF97-076	17.9	13.0	14.1	9.3	14.3	14.3
HF97-166	18.8	17.0	14.1	13.0	14.4	13.9
HS97-4555	17.0	15.0	14.3	13.8	14.6	14.5
LN94-15200-97	15.9	14.0	11.8	10.5	12.2	11.6
LN95-5817	17.3	13.0	12.4	11.3	13.8	13.0
LN95-6415	15.4	16.0	13.3	12.7	13.2	13.0
LN95-6446	16.5	14.0	13.6	12.0	12.7	13.1
U97-3114	20.7	15.0	15.7	14.3	16.7	16.4
U97-3642	19.1	17.0	13.2	13.4	14.4	14.5
U97-201128	15.7	16.0	14.5	13.0	14.2	13.6
U97-202103	16.5	16.0	13.8	14.3	13.6	16.1

UNIFORM TEST III, 2000

SEED SIZE (g/100)

Strain	Plain City OH	South Charlston OH	Wooster OH
IA3010 (III)		13.9	16.3
IA2052 (II)		15.4	13.6
Macon (L)		17.9	15.7
Stout (dt1)		16.2	15.1
U96-2208 (dt1)		16.9	16.7
A97-973002		14.2	15.9
A98-980047		14.0	14.1
C1985		15.0	16.1
HC94-96PR		15.9	15.8
HC94-1065		13.5	16.4
HC94-1946		14.4	14.0
HC95-1389		15.2	16.3
HC95-4334		14.8	14.3
HC96-73PR		14.7	15.2
HF97-011		16.7	15.5
HF97-076		14.7	16.3
HF97-166		16.6	17.1
HS97-4555		15.5	15.4
LN94-15200-97		14.1	13.7
LN95-5817		13.7	15.1
LN95-6415		15.4	14.6
LN95-6446		13.6	15.3
U97-3114		18.0	17.9
U97-3642		15.4	15.4
U97-201128		14.8	13.9
U97-202103		14.7	16.2

UNIFORM TEST III, 2000

PROTEIN (%)

Strain	Mean 5 Tests	Ames IA	Newton IL	Urbana IL	Lafayette IN	Wooster OH
IA3010 (III)	41.0	42.3	42.5	40.8	41.5	38.1
IA2052 (II)	43.2	41.1	44.8	42.9	43.7	43.7
Macon (L)	41.8	40.4	43.2	42.7	42.8	40.1
Stout (dt1)	41.2	41.6	43.0	40.3	41.3	39.6
U96-2208 (dt1)	42.0	42.2	44.4	40.6	40.7	42.0
A97-973002	42.1	41.9	43.7	42.3	43.2	39.3
A98-980047	43.8	43.7	44.3	43.0	44.5	43.5
C1985	46.3	48.3	47.6	39.7	47.7	47.9
HC94-96PR	40.4	39.2	43.2	39.5	41.0	39.3
HC94-1065	39.5	38.4	41.0	39.3	39.4	39.7
HC94-1946	40.6	40.2	42.3	39.1	40.5	40.7
HC95-1389	40.6	38.8	43.0	39.5	41.5	40.0
HC95-4334	39.8	39.0	41.5	39.4	39.1	40.0
HC96-73PR	41.2	40.8	44.6	41.7	41.2	37.8
HF97-011	42.9	42.5	44.1	42.5	43.5	41.7
HF97-076	43.5	42.6	45.1	43.3	43.6	43.1
HF97-166	43.7	42.9	45.2	42.1	46.5	41.5
HS97-4555	42.3	42.4	43.8	41.9	42.3	41.0
LN94-15200-97	41.7	41.3	42.8	41.9	42.5	40.1
LN95-5817	42.4	41.9	44.8	41.7	41.4	41.9
LN95-6415	43.8	43.4	45.5	43.2	44.2	42.7
LN95-6446	43.6	43.8	43.6	44.3	44.0	42.3
U97-3114	41.7	42.0	44.0	39.7	41.9	41.1
U97-3642	41.6	42.0	42.6	40.9	42.1	40.4
U97-201128	42.9	43.2	44.7	41.6	43.0	42.2
U97-202103	42.7	41.0	44.6	42.8	42.1	42.8

UNIFORM TEST III, 2000

OIL (%)

Strain	Mean 5 Tests	Ames IA	Newton IL	Urbana IL	Lafayette IN	Wooster OH
IA3010 (III)	19.4	19.8	19.5	19.8	19.0	18.9
IA2052 (II)	19.5	19.4	19.4	20.1	19.2	19.6
Macon (L)	19.8	20.4	19.9	20.1	19.5	19.3
Stout (dt1)	20.3	20.3	20.3	21.3	20.0	19.8
U96-2208 (dt1)	19.8	19.5	19.4	20.4	20.1	19.5
A97-973002	19.3	18.6	19.7	19.8	18.5	19.6
A98-980047	17.9	18.0	17.7	18.2	17.6	18.3
C1985	17.3	16.8	17.4	18.4	16.7	17.4
HC94-96PR	20.5	20.4	20.0	21.2	20.9	20.1
HC94-1065	20.4	20.0	20.7	21.1	20.5	19.8
HC94-1946	19.8	19.0	19.7	20.7	20.1	19.3
HC95-1389	20.0	19.8	19.9	20.9	19.9	19.7
HC95-4334	20.2	20.0	20.3	20.7	20.0	19.9
HC96-73PR	19.4	18.7	18.6	20.3	19.6	19.7
HF97-011	20.3	20.1	20.2	20.5	20.3	20.2
HF97-076	20.0	19.9	20.2	20.1	20.4	19.7
HF97-166	19.8	19.9	19.8	20.3	19.3	19.5
HS97-4555	19.9	19.8	19.9	20.6	19.6	19.7
LN94-15200-97	18.9	18.4	19.1	19.4	19.4	18.3
LN95-5817	19.1	18.3	19.5	19.6	19.2	18.7
LN95-6415	19.0	18.7	19.2	19.4	18.6	18.9
LN95-6446	19.8	19.2	19.7	20.8	19.7	19.7
U97-3114	20.1	19.6	19.8	20.9	20.8	19.5
U97-3642	20.2	19.7	20.9	20.8	20.1	19.6
U97-201128	19.3	19.3	19.3	18.6	19.8	19.4
U97-202103	18.8	18.6	18.5	20.2	18.4	18.3

Preliminary Test IIIA, 2000

	Strain	Parentage	Generation Composited	Unique Traits
1.	IA3010 (III)	Jacques J285 x Northrup King S29-39	F5	
2.	IA2052 (II)	Northrup King S24-92 x Parker	F5	
3.	Macon (L)	Sherman x Resnik	F5	
4.	A99-218031	DSR-365 x Pioneer 9321	F5	
5.	A99-218032	Pioneer 9381 x Pioneer 9321	F5	
6.	A99-218033	Pioneer 9381 x Pioneer 9321	F5	
7.	A99-218037	AP1995 x A94-572029	F4	
8.	A99-314011	DSR-365 x AP1995	F5	
9.	A99-314032	Northrup King S20-91 x Pioneer 9321	F5	
10.	A99-314040	DSR-365 x Northrup King S20-91	F5	
11.	A99-315011	A94-572029 x Pioneer 9321	F5	
12.	A99-315015	DSR-365 x A94-572029	F5	
13.	A99-315018	DSR-365 x A94-572029	F5	
14.	A99-315020	DSR-365 x Pioneer 9321	F5	
15.	A99-315022	DSR-365 x Pioneer 9381	F5	
16.	A99-315026	DSR-365 x Pioneer 9381	F5	
17.	HS98-3621	Defiance x HS91-4825	F5	Rps1b, Rps3a
18.	HS98-3637	Defiance x HS91-4825	F5	Rps1b, Rps3a
19.	SN97-2538	Macon x Pioneer 9392	F5	
20.	SN97-2556	Macon x Pioneer 9392	F5	
21.	SN97-2558	Macon x Pioneer 9392	F5	
22.	SN97-2581	Macon x Pioneer 9392	F5	
23.	SN97-2657	Probst x Pioneer 9393	F5	
24.	SN97-3334	Macon x Asgrow A3237	F5	
25.	SN97-3342	Macon x Asgrow A3237	F5	
26.	SN97-3416	Macon x Asgrow 3237	F5	
27.	SN97-3421	Macon x Asgrow A3237	F5	
28.	U98-201506	Parker x Dunbar	F4	
29.	U98-201758	U94-3412 x Agripro AP1995	F4	
30.	U98-201913	U94-2306 x Parker	F4	
31.	U98-202454	U94-3412 x Dunbar	F4	
32.	U98-303527	MSBP5	F4	
33.	U98-304463	MSBP5	F4	
34.	U98-307162	U94-3412 x A94-774021	F4	
35.	U98-307723	U94-2306 x Parker	F4	
36.	U98-307735	U94-2306 x Parker	F4	
37.	U98-307749	U94-2306 x Parker	F4	
38.	U98-307917	U94-2306 x A92-525014	F4	
39.	U98-308035	U94-2306 x U94-3412	F4	
40.	U98-308038	U94-2306 x U94-3518	F4	

PRELIMINARY TEST IIIA, 2000

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Humboldt	Shattering Score Manhattan	PR Lafayette Race 7	PS Lafayette a %	P&SB Lafayette n %
IA3010 (III)	PTBSYBIIep	3.0	1.0	R	14	4
IA2052 (II)	WGBDYBfIEp	4.0	1.0	H	46	2
Macon (L)	WTBSYBIIEp	4.0	1.0	S	30	4
A99-218031	P+WTBDYBrIEp	4.0	1.0	R	6	0
A99-218032	WTBDYBrIEp	4.0	2.0	R	14	4
A99-218033	P+WTBSYBrIH	4.0	1.0	S	50	8
A99-218037	PTBDYBIIEp	4.0	2.0	R	40	10
A99-314011	WTBDYBIIH	4.0	1.0	R	22	0
A99-314032	PGBDYBIIEp	3.0	1.0	S	38	6
A99-314040	PTBDYBIIEp	4.0	1.0	H	10	2
A99-315011	PTBDYBIIEp	4.0	1.0	S	12	4
A99-315015	PTBSYBIIEp	4.0	1.0	S	6	0
A99-315018	WTBDYBIIEp	5.0	1.0	R	4	4
A99-315020	P+WGBDYHIEp	4.0	2.0	R	4	6
A99-315022	P+WGBDYHIH	4.0	1.0	H	20	0
A99-315026	WGBDYBIIH	4.0	1.0	H	12	4
HS98-3621	WGTSYBflep	3.0	2.0	H	16	4
HS98-3637	P+WGBSYBrIep	3.0	1.0	R	12	4
SN97-2538	P+WT+GBDYBIIEp	4.0	1.0	S	8	2
SN97-2556	P+WTBDYBIIEp	4.0	1.0	S	14	2
SN97-2558	WTBDYBIIEp	4.0	1.0	S	22	0
SN97-2581	PTBDYBIIEp	4.0	1.0	S	10	0
SN97-2657	PTBHYBIIH	4.0	1.0	R	20	4
SN97-3334	PTBDYBIIEp	4.0	1.0	H	12	4
SN97-3342	P+WTBDYBIIH	4.0	2.0	S	14	0
SN97-3416	P+WTBDYBIIEp	4.0	1.0	H	26	6
SN97-3421	P+WTBDYBIIEp	4.0	1.0	S	28	2
U98-201506	PGTSYBflEp	4.0	1.0	S	56	0
U98-201758	WGBDYBIIEp	4.0	1.0	S	2	2
U98-201913	WGBDYBfIEp	4.0	1.0	S	68	0
U98-202454	WGBDYBrIEp	4.0	1.0	H	6	1
U98-303527	WGBDYBrIep	4.0	1.0	S	10	2
U98-304463	PTBDYBrIH	4.0	2.0	S	16	0
U98-307162	PTBDYBrIEp	3.0	1.0	R	6	0
U98-307723	WGBDYBfIEp	4.0	1.0	S	66	0
U98-307735	WGBDYBrIep	4.0	1.0	S	32	6
U98-307749	WTBDYBrIEp	4.0	1.0	S	46	2
U98-307917	WGBDYBIIEp	4.0	1.0	S	8	2
U98-308035	WGBDYBIIH	4.0	1.0	S	12	0
U98-308038	WGBDYBIIH	4.0	1.0	S	34	6

PRELIMINARY TEST IIIA, 2000

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 9 Date	Lodging 10 Score	Plant Height 9 In.	Seed Size 10 g/100	Composition Protein 5 %	 Oil 5 %
IA3010 (III)	55.9	12	9/18	1.0	30	13.9	40.4	19.4
IA2052 (II)	55.2	15	-7.1	1.6	35	14.3	43.1	19.8
Macon (L)	53.7	23	4.3	1.6	35	16.6	42.5	19.7
A99-218031	54.8	16	-3.9	1.7	32	13.2	42.0	18.4
A99-218032	56.2	9	-1.6	2.0	36	14.8	41.6	19.2
A99-218033	55.5	13	-4.7	1.9	38	13.7	41.7	19.6
A99-218037	52.1	30	1.0	1.8	34	14.6	42.6	19.1
A99-314011	55.4	14	-1.0	1.7	37	14.0	41.9	18.8
A99-314032	50.4	38	-0.3	1.4	34	16.4	42.4	18.5
A99-314040	56.5	7	1.1	1.6	36	15.1	41.7	18.9
A99-315011	57.4	5	0.9	1.2	35	14.8	43.0	18.9
A99-315015	54.1	21	3.4	1.2	35	15.0	41.4	20.1
A99-315018	51.6	34	0.5	1.5	34	12.4	40.5	20.2
A99-315020	57.6	4	-0.7	1.6	34	13.0	41.7	19.0
A99-315022	56.8	6	1.5	1.5	34	14.2	41.7	19.5
A99-315026	60.7	1	-0.2	1.3	32	14.9	40.3	20.0
HS98-3621	51.9	32	0.0	1.2	33	15.1	43.8	19.2
HS98-3637	50.9	36	0.9	1.3	33	16.1	44.4	18.6
SN97-2538	51.0	35	5.4	1.5	36	15.0	42.5	19.4
SN97-2556	54.7	17	5.9	1.4	36	15.3	43.0	19.5
SN97-2558	51.9	32	5.3	1.4	35	14.6	42.4	19.7
SN97-2581	53.2	25	5.0	1.5	34	14.7	43.1	19.6
SN97-2657	50.6	37	6.3	1.3	37	13.6	42.5	19.2
SN97-3334	52.5	28	6.9	1.6	35	15.5	42.9	19.6
SN97-3342	52.8	26	5.7	1.4	36	15.3	43.1	19.5
SN97-3416	52.1	30	6.6	1.4	36	15.2	42.9	19.3
SN97-3421	53.9	22	5.2	1.3	35	15.5	42.9	19.6
U98-201506	47.2	40	1.9	2.4	40	12.5	41.4	19.6
U98-201758	54.3	20	3.7	1.6	35	14.2	42.8	19.0
U98-201913	53.5	24	-2.5	1.9	39	15.2	42.3	19.9
U98-202454	56.1	10	2.4	1.6	35	13.7	42.5	19.2
U98-303527	52.6	27	4.3	2.1	38	14.6	41.9	19.4
U98-304463	56.1	10	2.6	1.5	34	14.6	41.5	19.5
U98-307162	58.7	2	1.5	1.5	33	13.9	41.2	19.6
U98-307723	54.5	19	0.7	2.6	37	14.8	42.9	20.3
U98-307735	56.4	8	2.5	2.1	41	14.6	41.8	19.5
U98-307749	49.5	39	2.7	2.1	40	14.1	42.5	20.2
U98-307917	57.9	3	3.1	1.5	35	14.1	41.6	19.8
U98-308035	52.3	29	3.5	1.5	36	14.6	42.4	19.6
U98-308038	54.7	17	3.2	1.5	38	13.9	42.8	19.6

131.0 Days After Planting

PRELIMINARY TEST IIIA, 2000

YIELD (bu/a)

Strain	Mean 10 Tests	Ames IA	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	55.9	59.1	50.3	52.1	50.7	53.3
IA2052 (II)	55.2	57.1	44.3	57.1	49.8	50.9
Macon (L)	53.7	45.9	43.9	55.9	49.9	52.5
A99-218031	54.8	55.4	52.8	53.1	49.0	45.8
A99-218032	56.2	54.9	52.7	57.5	53.3	45.7
A99-218033	55.5	51.8	47.2	60.7	49.3	50.3
A99-218037	52.1	50.7	43.8	56.5	49.1	47.9
A99-314011	55.4	50.7	51.9	55.2	53.7	49.2
A99-314032	50.4	54.4	44.5	52.5	49.3	46.8
A99-314040	56.5	55.3	47.3	54.9	56.7	48.7
A99-315011	57.4	46.0	47.7	65.1	56.5	55.1
A99-315015	54.1	50.1	49.5	63.5	53.8	48.8
A99-315018	51.6	42.0	42.8	59.2	53.3	52.4
A99-315020	57.6	60.5	51.0	57.0	56.8	47.8
A99-315022	56.8	57.8	49.9	60.5	58.5	48.9
A99-315026	60.7	58.0	51.0	68.8	58.2	57.6
HS98-3621	51.9	49.7	45.5	51.0	48.9	52.8
HS98-3637	50.9	50.0	43.3	56.9	50.2	39.4
SN97-2538	51.0	44.7	45.5	56.9	49.2	46.3
SN97-2556	54.7	50.3	45.7	59.0	47.6	51.2
SN97-2558	51.9	40.9	46.9	55.2	50.3	49.7
SN97-2581	53.2	48.1	42.7	50.3	52.4	50.8
SN97-2657	50.6	39.0	40.7	57.7	46.4	50.7
SN97-3334	52.5	48.3	41.3	55.4	53.2	48.4
SN97-3342	52.8	45.7	44.5	58.0	52.4	51.9
SN97-3416	52.1	42.0	40.6	55.6	52.0	54.3
SN97-3421	53.9	51.5	43.4	61.3	48.1	46.4
U98-201506	47.2	43.5	47.4	58.5	47.6	50.5
U98-201758	54.3	50.1	47.4	52.1	52.3	44.1
U98-201913	53.5	57.5	49.4	58.0	46.1	47.1
U98-202454	56.1	53.7	49.2	56.0	52.9	52.6
U98-303527	52.6	50.9	47.4	52.9	51.0	48.8
U98-304463	56.1	51.8	48.5	56.4	46.2	54.4
U98-307162	58.7	52.2	46.6	59.9	55.8	53.4
U98-307723	54.5	50.5	44.1	62.4	49.2	53.4
U98-307735	56.4	45.2	47.7	57.7	53.9	54.8
U98-307749	49.5	49.8	39.9	57.8	55.0	52.2
U98-307917	57.9	58.4	51.3	62.7	54.3	52.5
U98-308035	52.3	53.1	42.5	61.0	48.4	45.2
U98-308038	54.7	54.5	48.5	54.3	57.2	48.7
C.V. (%)		9.6	7.6	5.5	7.6	5.6
L.S.D. (5%)		9.9	7.1	6.5	8.0	4.7
Row Sp. (In.)		27	27	30	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIIA, 2000

YIELD (bu/a)

Strain	McCreedie MO	Goehner NE	Tekamah NE	Hoytville OH	South Charleston OH
IA3010 (III)	69.7	61.0	56.0	41.3	65.1
IA2052 (II)	56.2	67.3	63.6	40.6	65.0
Macon (L)	64.2	63.4	49.6	49.3	62.8
A99-218031	64.9	64.9	58.5	40.9	63.0
A99-218032	64.7	59.7	56.5	50.1	66.8
A99-218033	71.6	66.5	58.0	45.9	53.4
A99-218037	66.2	55.3	50.7	42.0	58.4
A99-314011	64.3	59.2	50.9	47.4	71.8
A99-314032	51.8	61.6	55.8	27.9	59.2
A99-314040	69.9	56.1	58.7	49.8	67.9
A99-315011	69.9	68.0	51.1	39.3	75.7
A99-315015	57.6	62.7	44.9	42.8	67.0
A99-315018	55.6	58.1	46.8	49.1	57.0
A99-315020	65.9	59.7	60.6	44.6	72.4
A99-315022	63.7	66.5	49.8	45.7	66.7
A99-315026	61.7	74.8	59.7	52.0	64.9
HS98-3621	53.8	58.7	55.3	40.4	63.2
HS98-3637	65.3	51.7	47.9	45.8	58.3
SN97-2538	58.6	53.2	47.0	45.5	62.8
SN97-2556	66.2	63.2	50.5	48.5	64.4
SN97-2558	63.3	62.0	45.1	44.5	61.5
SN97-2581	66.8	60.7	47.1	47.9	65.1
SN97-2657	70.4	53.6	43.6	51.2	52.5
SN97-3334	68.7	52.9	44.6	48.0	64.5
SN97-3342	53.8	60.8	49.4	53.0	59.0
SN97-3416	67.4	52.3	43.0	52.6	60.8
SN97-3421	69.5	56.6	49.7	47.1	65.8
U98-201506	61.6	58.7		43.9	60.8
U98-201758	74.6	60.6	48.5	51.3	61.6
U98-201913	51.4	62.6	60.2	46.9	55.7
U98-202454	76.7	61.2	48.1	45.2	65.5
U98-303527	66.7	56.3	46.2	48.8	57.2
U98-304463	75.5	62.4	52.6	43.3	69.6
U98-307162	71.0	65.4	57.3	55.2	70.2
U98-307723	69.2	55.7	55.3	45.4	60.1
U98-307735	62.4	60.8	51.3	56.6	73.8
U98-307749	40.2	56.5	47.0	36.3	60.1
U98-307917	59.0	64.5	58.3	46.5	71.3
U98-308035	62.2	61.1	44.9	47.7	57.1
U98-308038	62.2	61.2	48.6	48.7	63.5
C.V. (%)	7.4	8.6	7.3	5.5	8.8
L.S.D. (5%)	7.9	10.4	7.5	4.3	11.3
Row Sp. (In.)	30	30	30	7.5	7.5
Rows/Plot	4	4	4	8	8
Reps	2	2	2	2	2

PRELIMINARY TEST IIIA, 2000

YIELD RANK

Strain	Yield Rank	Ames IA	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	12	2	7	37	22	8
IA2052 (II)	15	7	28	20	26	17
Macon (L)	23	32	30	27	25	11
A99-218031	16	8	1	34	32	36
A99-218032	9	10	2	19	13	37
A99-218033	13	16	20	8	27	21
A99-218037	30	20	31	24	31	30
A99-314011	14	20	3	30	12	23
A99-314032	38	12	26	36	27	33
A99-314040	7	9	19	32	5	27
A99-315011	5	31	14	2	6	2
A99-315015	21	24	9	3	11	25
A99-315018	34	37	34	11	13	13
A99-315020	4	1	5	21	4	31
A99-315022	6	5	8	9	1	24
A99-315026	1	4	5	1	2	1
HS98-3621	32	28	24	39	33	9
HS98-3637	36	26	33	22	24	40
SN97-2538	35	35	24	22	29	35
SN97-2556	17	23	23	12	36	16
SN97-2558	32	39	21	30	23	22
SN97-2581	25	30	35	40	17	18
SN97-2657	37	40	38	17	38	19
SN97-3334	28	29	37	29	15	29
SN97-3342	26	33	26	14	17	15
SN97-3416	30	37	39	28	20	5
SN97-3421	22	18	32	6	35	34
U98-201506	40	36	16	13	36	20
U98-201758	20	24	16	37	19	39
U98-201913	24	6	10	14	40	32
U98-202454	10	13	11	26	16	10
U98-303527	27	19	16	35	21	25
U98-304463	10	16	12	25	39	4
U98-307162	2	15	22	10	7	6
U98-307723	19	22	29	5	29	6
U98-307735	8	34	14	17	10	3
U98-307749	39	27	40	16	8	14
U98-307917	3	3	4	4	9	11
U98-308035	29	14	36	7	34	38
U98-308038	17	11	12	33	3	27

PRELIMINARY TEST IIIA, 2000

YIELD RANK

Strain	McCreedie MO	Goehner NE	Tekamah NE	Hoytville OH	South Charleston OH
IA3010 (III)	9	19	11	34	14
IA2052 (II)	34	3	1	36	16
Macon (L)	23	9	23	10	23
A99-218031	20	7	6	35	22
A99-218032	21	25	10	8	10
A99-218033	4	4	8	22	39
A99-218037	16	35	19	33	33
A99-314011	22	26	18	18	4
A99-314032	38	15	12	40	31
A99-314040	7	33	5	9	8
A99-315011	7	2	17	38	1
A99-315015	33	11	35	32	9
A99-315018	35	29	32	11	37
A99-315020	18	24	2	28	3
A99-315022	24	4	21	24	11
A99-315026	29	1	4	5	17
HS98-3621	36	27	13	37	21
HS98-3637	19	40	28	23	34
SN97-2538	32	37	30	25	23
SN97-2556	16	10	20	14	19
SN97-2558	25	14	34	29	26
SN97-2581	14	22	29	16	14
SN97-2657	6	36	38	7	40
SN97-3334	12	38	27	15	18
SN97-3342	36	20	24	3	32
SN97-3416	13	39	39	4	27
SN97-3421	10	30	22	19	12
U98-201506	30	27		30	27
U98-201758	3	23	26	6	25
U98-201913	39	12	3	20	38
U98-202454	1	17	27	27	13
U98-303527	15	32	33	12	35
U98-304463	2	13	15	31	7
U98-307162	5	6	9	2	6
U98-307723	11	34	14	26	29
U98-307735	26	21	16	1	2
U98-307749	40	31	30	39	29
U98-307917	31	8	7	21	5
U98-308035	27	18	36	17	36
U98-308038	27	16	25	13	20

PRELIMINARY TEST IIIA, 2000

MATURITY (date)

Strain	Mean 9 Tests	Ames IA	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	09/18	09/17		09/11	09/17	09/21
IA2052 (II)	-7.1	-6		-9	-12	-3
Macon (L)	4.3	5		6	3	4
A99-218031	-3.9	0		-6	-6	-3
A99-218032	-1.6	-5		-3	-4	-1
A99-218033	-4.7	-5		-5	-8	-2
A99-218037	1.0	3		4	-1	2
A99-314011	-1.0	-2		-2	-2	1
A99-314032	-0.3	-1		-5	-5	2
A99-314040	1.1	-2		-4	1	1
A99-315011	0.9	1		3	-1	2
A99-315015	3.4	3		6	1	2
A99-315018	0.5	-2		-1	1	3
A99-315020	-0.7	0		0	-2	-1
A99-315022	1.5	2		1	0	3
A99-315026	-0.2	0		-2	-2	2
HS98-3621	0.0	1		3	-2	2
HS98-3637	0.9	2		6	-2	-2
SN97-2538	5.4	4		7	5	4
SN97-2556	5.9	3		7	5	5
SN97-2558	5.3	6		7	5	5
SN97-2581	5.0	4		7	5	5
SN97-2657	6.3	5		9	6	4
SN97-3334	6.9	6		8	8	7
SN97-3342	5.7	5		7	6	7
SN97-3416	6.6	4		7	7	8
SN97-3421	5.2	4		7	5	5
U98-201506	1.9	-1		5	1	1
U98-201758	3.7	2		7	4	1
U98-201913	-2.5	-2		-2	-7	2
U98-202454	2.4	2		5	2	1
U98-303527	4.3	4		4	5	3
U98-304463	2.6	0		5	2	2
U98-307162	1.5	-1		3	3	3
U98-307723	0.7	4		0	-1	3
U98-307735	2.5	2		2	4	0
U98-307749	2.7	5		2	2	2
U98-307917	3.1	3		3	2	3
U98-308035	3.5	3		7	3	3
U98-308038	3.2	4		5	0	3
Date Planted	05/10	05/01		04/28	05/05	05/23
Days to Mature	131	139		136	135	121

PRELIMINARY TEST IIIA, 2000

MATURITY (date)

Strain	McCreedie MO	Goehner NE	Tekamah NE	Hoytville OH	South Charleston OH
IA3010 (III)	09/14	09/22	09/20	09/28	09/17
IA2052 (II)	-1	-10	-4	-11	-8
Macon (L)	2	9	6	1	3
A99-218031	-4	-1	-3	-8	-5
A99-218032	0	2	5	-7	-2
A99-218033	-2	-1	-3	-11	-6
A99-218037	-1	1	5	-2	-1
A99-314011	-4	0	2	-1	-1
A99-314032	-2	2	6	2	-1
A99-314040	2	3	6	0	2
A99-315011	-2	6	-1	-1	2
A99-315015	2	6	4	4	4
A99-315018	0	4	0	-0	0
A99-315020	-1	1	0	-1	-2
A99-315022	-1	5	4	1	-1
A99-315026	-1	2	1	1	-2
HS98-3621	-3	0	6	-4	-3
HS98-3637	1	0	1	1	0
SN97-2538	4	7	8	4	5
SN97-2556	6	9	8	5	6
SN97-2558	4	8	6	3	4
SN97-2581	4	9	7	2	2
SN97-2657	6	8	9	4	6
SN97-3334	4	10	8	6	6
SN97-3342	4	8	7	3	5
SN97-3416	5	9	7	7	6
SN97-3421	3	8	8	4	3
U98-201506	2	6	2	1	0
U98-201758	2	8	6	1	3
U98-201913	-5	0	2	-5	-5
U98-202454	-1	6	7	0	0
U98-303527	1	6	5	6	5
U98-304463	1	4	7	1	2
U98-307162	-1	1	6	-2	1
U98-307723	-3	2	6	-2	-2
U98-307735	-1	6	5	1	4
U98-307749	2	7	3	1	0
U98-307917	2	6	5	1	3
U98-308035	2	8	6	-0	1
U98-308038	3	9	7	-2	0
Date Planted	05/08	05/24	05/16	05/16	05/04
Days to Mature	129	121	127	135	136

PRELIMINARY TEST IIIA, 2000

LODGING (score)

Strain	Mean 10 Tests	Ames IA	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	1.0	1.0	1.0	1.0	1.0	1.0
IA2052 (II)	1.6	1.3	2.3	1.0	1.8	1.0
Macon (L)	1.6	1.2	1.8	1.3	1.0	1.5
A99-218031	1.7	1.5	2.0	1.0	1.8	1.0
A99-218032	2.0	1.5	2.5	1.5	2.3	1.5
A99-218033	1.9	1.5	2.5	1.5	1.5	1.5
A99-218037	1.8	1.4	2.3	1.0	1.5	2.5
A99-314011	1.7	1.3	2.3	1.0	1.8	1.5
A99-314032	1.4	1.7	1.5	1.3	1.0	1.5
A99-314040	1.6	1.9	2.0	1.5	1.5	1.5
A99-315011	1.2	1.4	1.5	1.0	1.3	1.0
A99-315015	1.2	1.2	2.0	1.0	1.0	1.0
A99-315018	1.5	1.2	1.8	1.0	1.3	2.5
A99-315020	1.6	1.4	2.0	1.3	1.8	1.0
A99-315022	1.5	1.3	1.8	1.3	1.5	1.0
A99-315026	1.3	1.2	1.8	1.3	1.0	1.0
HS98-3621	1.2	1.2	1.5	1.0	1.0	1.0
HS98-3637	1.3	1.0	1.5	1.0	1.3	1.0
SN97-2538	1.5	1.4	2.0	1.5	1.0	1.0
SN97-2556	1.4	1.2	1.5	1.5	1.0	1.0
SN97-2558	1.4	1.3	1.8	1.5	1.3	1.0
SN97-2581	1.5	1.4	1.8	1.3	1.0	1.0
SN97-2657	1.3	1.2	1.8	1.3	1.0	1.0
SN97-3334	1.6	1.3	1.8	1.5	1.3	1.0
SN97-3342	1.4	1.3	1.8	1.3	1.0	1.5
SN97-3416	1.4	1.2	2.0	1.0	1.0	1.0
SN97-3421	1.3	1.5	2.0	1.5	1.0	1.0
U98-201506	2.4	1.9	2.5	2.0	2.5	2.0
U98-201758	1.6	1.3	1.8	1.0	1.8	1.0
U98-201913	1.9	1.5	2.3	1.5	2.3	1.5
U98-202454	1.6	1.4	2.0	1.0	1.5	1.5
U98-303527	2.1	1.5	2.3	1.5	1.8	1.5
U98-304463	1.5	1.4	2.0	1.5	1.0	1.0
U98-307162	1.5	1.3	2.0	1.0	1.3	1.5
U98-307723	2.6	2.5	2.8	2.0	4.0	2.5
U98-307735	2.1	1.4	2.3	1.8	2.8	2.0
U98-307749	2.1	1.9	2.0	2.0	2.5	2.0
U98-307917	1.5	1.5	2.0	1.5	1.0	1.5
U98-308035	1.5	1.3	1.8	1.5	1.3	1.5
U98-308038	1.5	1.4	2.0	1.0	1.3	1.0

PRELIMINARY TEST IIIA, 2000

LODGING (score)

Strain	McCreedie MO	Goehner NE	Tekamah NE	Hoytville OH	South Charleston OH
IA3010 (III)	0.5	1.0	1.0	1.2	1.0
IA2052 (II)	2.5	1.0	2.0	1.2	2.3
Macon (L)	1.3	2.0	3.0	1.3	1.5
A99-218031	0.9	2.0	3.0	1.3	2.5
A99-218032	2.0	2.0	2.5	1.3	3.3
A99-218033	2.1	2.0	2.0	1.3	3.0
A99-218037	1.8	2.0	2.0	1.4	2.5
A99-314011	2.2	2.0	2.0	1.3	1.8
A99-314032	1.7	1.5	1.0	1.2	1.3
A99-314040	1.6	1.5	1.5	1.5	1.5
A99-315011	1.0	2.0	1.0	1.3	1.0
A99-315015	0.9	1.5	1.0	1.3	1.3
A99-315018	1.0	1.5	2.0	1.3	1.3
A99-315020	0.9	1.5	2.0	1.4	2.8
A99-315022	1.3	2.0	1.5	1.3	1.8
A99-315026	0.8	1.0	2.0	1.2	1.3
HS98-3621	0.6	1.5	1.0	1.2	1.5
HS98-3637	1.3	1.0	2.0	1.3	1.3
SN97-2538	1.7	1.5	2.0	1.4	1.5
SN97-2556	1.1	2.0	2.0	1.3	1.8
SN97-2558	1.0	2.0	2.0	1.3	1.0
SN97-2581	1.6	2.0	2.0	1.3	1.3
SN97-2657	1.5	1.5	1.5	1.3	1.3
SN97-3334	2.1	2.0	2.0	1.4	1.3
SN97-3342	1.1	2.0	2.0	1.2	1.3
SN97-3416	1.2	2.0	2.0	1.4	1.8
SN97-3421	0.4	1.5	2.0	1.3	1.0
U98-201506	2.0	3.0	3.0	1.2	3.8
U98-201758	1.2	2.5	2.0	1.3	2.0
U98-201913	2.0	2.0	2.0	1.3	2.5
U98-202454	1.2	2.0	2.0	1.3	1.8
U98-303527	3.3	2.0	3.0	1.4	2.8
U98-304463	1.8	2.0	1.5	1.3	1.8
U98-307162	1.4	1.5	2.0	1.4	1.3
U98-307723	2.5	3.0	3.0	1.2	2.8
U98-307735	2.3	2.0	2.0	1.4	2.8
U98-307749	2.6	2.5	2.0	1.3	2.3
U98-307917	1.1	2.0	2.0	1.3	1.3
U98-308035	1.4	2.0	1.5	1.3	1.5
U98-308038	1.7	2.0	2.0	1.2	1.8

PRELIMINARY TEST IIIA, 2000

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Ames IA	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	30	32	28	26	32	35
IA2052 (II)	35	41	32	35	36	35
Macon (L)	35	39	30	35	36	37
A99-218031	32	38	31	33	35	32
A99-218032	36	43	35	35	37	31
A99-218033	38	46	37	39	38	43
A99-218037	34	40	28	33	36	38
A99-314011	37	42	35	36	38	41
A99-314032	34	42	28	34	35	42
A99-314040	36	42	32	36	37	36
A99-315011	35	41	30	36	37	36
A99-315015	35	41	31	34	39	33
A99-315018	34	41	31	35	35	36
A99-315020	34	39	32	34	36	34
A99-315022	34	41	31	35	37	35
A99-315026	32	37	28	34	33	36
HS98-3621	33	40	31	33	33	38
HS98-3637	33	40	31	33	34	31
SN97-2538	36	44	30	35	38	35
SN97-2556	36	42	33	36	39	38
SN97-2558	35	39	33	37	34	36
SN97-2581	34	39	33	33	35	35
SN97-2657	37	44	31	35	36	36
SN97-3334	35	40	30	34	36	38
SN97-3342	36	42	31	35	37	42
SN97-3416	36	43	31	33	35	39
SN97-3421	35	42	34	35	37	37
U98-201506	40	50	35	43	40	40
U98-201758	35	37	32	33	36	35
U98-201913	39	45	37	40	40	44
U98-202454	35	41	32	36	36	39
U98-303527	38	43	34	35	38	38
U98-304463	34	39	32	34	34	35
U98-307162	33	36	30	29	31	36
U98-307723	37	45	32	37	37	37
U98-307735	41	50	37	41	42	41
U98-307749	40	46	34	43	40	39
U98-307917	35	42	32	35	36	37
U98-308035	36	42	34	36	36	42
U98-308038	38	45	37	35	40	44

PRELIMINARY TEST IIIA, 2000

PLANT HEIGHT (inches)

Strain	McCreedie MO	Goehner NE	Tekamah NE	Hoytville OH	South Charleston OH
IA3010 (III)	33	42		17	30
IA2052 (II)	42	41		20	32
Macon (L)	38	41		22	37
A99-218031	35	38		19	33
A99-218032	41	44		23	38
A99-218033	35	42		23	41
A99-218037	36	43		20	34
A99-314011	37	44		22	36
A99-314032	34	46		21	30
A99-314040	38	44		23	36
A99-315011	36	45		19	34
A99-315015	33	41		26	37
A99-315018	31	38		23	34
A99-315020	35	40		22	37
A99-315022	33	42		21	35
A99-315026	29	39		20	34
HS98-3621	31	38		21	33
HS98-3637	36	40		23	32
SN97-2538	38	43		23	36
SN97-2556	37	44		24	37
SN97-2558	35	39		23	39
SN97-2581	37	42		23	33
SN97-2657	40	43		29	37
SN97-3334	37	40		25	35
SN97-3342	37	42		25	36
SN97-3416	40	42		27	38
SN97-3421	34	42		25	34
U98-201506	44	48		24	41
U98-201758	34	39		27	38
U98-201913	38	46		26	41
U98-202454	38	39		23	34
U98-303527	42	47		25	43
U98-304463	37	41		22	32
U98-307162	39	42		25	32
U98-307723	41	48		21	33
U98-307735	42	49		26	45
U98-307749	41	48		25	41
U98-307917	32	42		23	34
U98-308035	37	41		22	36
U98-308038	40	42		26	37

PRELIMINARY TEST IIIA, 2000

SEED SIZE (g/100)

Strain	Mean 10 Tests	Ames IA	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	13.9	13.6	14.3	13.5	14.0	15.0
IA2052 (II)	14.3	14.2	13.2	14.1	13.4	15.6
Macon (L)	16.6	17.3	16.6	16.1	16.4	16.0
A99-218031	13.2	13.0	13.2	12.5	13.0	13.5
A99-218032	14.8	14.6	14.3	13.4	14.4	14.4
A99-218033	13.7	13.8	13.8	13.3	13.2	14.0
A99-218037	14.6	14.6	14.6	14.4	14.7	16.1
A99-314011	14.0	13.3	14.4	12.8	13.6	15.1
A99-314032	16.4	16.8	16.9	15.9	17.1	17.7
A99-314040	15.1	15.0	15.4	14.8	15.2	15.2
A99-315011	14.8	13.4	14.7	15.8	14.9	15.4
A99-315015	15.0	14.7	15.5	16.9	14.9	15.1
A99-315018	12.4	12.0	12.3	11.8	12.1	13.6
A99-315020	13.0	13.3	13.4	12.8	12.3	13.6
A99-315022	14.2	13.6	14.0	14.1	15.2	14.9
A99-315026	14.9	14.5	14.7	15.1	14.6	15.0
HS98-3621	15.1	15.7	14.5	15.7	14.9	16.4
HS98-3637	16.1	16.4	16.0	17.6	16.8	15.1
SN97-2538	15.0	15.4	15.1	15.4	15.1	15.0
SN97-2556	15.3	15.5	15.2	14.0	15.8	16.4
SN97-2558	14.6	15.4	15.4	14.6	15.2	15.6
SN97-2581	14.7	15.2	15.2	14.3	15.2	15.2
SN97-2657	13.6	13.7	13.9	14.7	14.2	14.1
SN97-3334	15.5	16.1	15.5	15.3	16.6	16.4
SN97-3342	15.3	15.2	15.9	14.4	16.3	16.1
SN97-3416	15.2	14.7	15.8	15.5	17.0	15.7
SN97-3421	15.5	16.1	15.6	14.9	15.2	16.1
U98-201506	12.5	12.9	14.4	13.0	14.2	14.7
U98-201758	14.2	13.5	14.1	13.8	14.3	14.7
U98-201913	15.2	14.6	15.1	14.4	13.3	18.0
U98-202454	13.7	13.7	14.1	13.7	12.9	14.0
U98-303527	14.6	15.3	15.5	13.9	14.2	16.0
U98-304463	14.6	14.3	13.7	15.9	15.5	15.2
U98-307162	13.9	12.9	14.2	13.7	13.6	15.6
U98-307723	14.8	14.3	14.6	14.4	14.5	16.4
U98-307735	14.6	14.0	14.1	13.9	16.2	15.3
U98-307749	14.1	13.8	13.7	13.5	14.6	14.6
U98-307917	14.1	13.6	14.0	14.6	14.2	16.1
U98-308035	14.6	14.3	14.7	15.2	15.5	15.2
U98-308038	13.9	14.0	13.9	14.4	13.5	15.6

PRELIMINARY TEST IIIA, 2000

SEED SIZE (g/100)

Strain	McCreedie MO	Goehner NE	Tekamah NE	Hoytville OH	South Charleston OH
IA3010 (III)	14.0	12.6	13.2	12.9	15.6
IA2052 (II)	14.0	14.6	13.6	14.8	15.3
Macon (L)	17.0	16.5	16.1	15.5	18.2
A99-218031	14.0	13.2	12.1	13.3	14.3
A99-218032	16.0	15.1	14.7	14.9	16.4
A99-218033	15.0	13.3	13.1	13.5	13.7
A99-218037	14.0	14.0	14.5	14.0	15.5
A99-314011	15.0	13.3	13.6	13.2	15.6
A99-314032	15.0	15.7	15.7	15.9	17.0
A99-314040	16.0	15.0	14.9	13.9	15.3
A99-315011	15.0	15.3	13.1	14.1	16.1
A99-315015	14.0	14.5	12.5	15.6	16.5
A99-315018	14.0	12.0	10.7	13.1	12.5
A99-315020	14.0	11.7	11.7	12.9	14.4
A99-315022	14.0	13.6	14.3	13.5	14.5
A99-315026	15.0	14.4	13.5	15.2	17.3
HS98-3621	15.0	14.3	15.1	14.2	15.2
HS98-3637	18.0	14.9	15.6	15.4	15.3
SN97-2538	16.0	13.8	13.9	14.1	16.1
SN97-2556	17.0	14.8	14.2	14.5	15.8
SN97-2558	14.0	14.0	13.4	14.3	14.3
SN97-2581	14.0	14.0	14.4	14.1	15.1
SN97-2657	13.0	13.2	12.5	13.2	13.5
SN97-3334	16.0	14.1	14.7	14.0	16.0
SN97-3342	15.0	14.5	14.7	14.8	15.9
SN97-3416	16.0	13.4	13.4	14.7	15.8
SN97-3421	18.0	14.3	14.8	14.8	15.4
U98-201506	14.0	13.1	.	13.5	14.7
U98-201758	16.0	14.7	13.4	14.0	13.4
U98-201913	16.0	15.8	14.5	14.7	15.9
U98-202454	14.0	13.9	12.9	13.3	14.2
U98-303527	15.0	13.7	14.0	13.6	15.0
U98-304463	14.0	15.1	13.9	13.6	15.1
U98-307162	15.0	13.4	13.3	13.0	14.4
U98-307723	16.0	14.6	13.9	14.0	15.1
U98-307735	15.0	13.9	12.8	14.0	16.5
U98-307749	15.0	13.2	12.5	14.8	15.8
U98-307917	14.0	14.0	12.8	13.7	14.3
U98-308035	15.0	13.8	13.1	15.1	13.7
U98-308038	13.0	13.4	13.9	13.3	14.0

PRELIMINARY TEST IIIA, 2000

PROTEIN (%)

Strain	Mean 5 Tests	Ames IA	Crawfordsville IA	Urbana IL	Lafayette IN	Wooster OH
IA3010 (III)	40.4	39.8	41.7	40.3	42.6	37.6
IA2052 (II)	43.1	43.8	43.5	42.4	43.4	42.3
Macon (L)	42.5	42.8	43.8	42.3	43.0	40.5
A99-218031	42.0	42.2	40.8	43.2	42.2	41.4
A99-218032	41.6	41.3	41.2	41.8	42.2	41.6
A99-218033	41.7	41.0	41.1	42.2	42.0	42.3
A99-218037	42.6	41.8	42.7	42.7	43.9	41.8
A99-314011	41.9	41.9	42.4	42.5	42.8	39.9
A99-314032	42.4	42.1	42.5	43.8	43.7	40.0
A99-314040	41.7	41.0	41.8	42.3	43.2	40.2
A99-315011	43.0	43.3	42.0	43.8	44.1	41.7
A99-315015	41.4	41.1	41.7	42.2	41.8	40.5
A99-315018	40.5	41.0	41.8	39.4	41.0	39.4
A99-315020	41.7	41.9	41.7	42.5	41.2	41.2
A99-315022	41.7	42.0	41.6	41.5	42.4	40.8
A99-315026	40.3	40.0	39.8	38.6	41.9	41.0
HS98-3621	43.8	43.5	45.7	43.1	44.6	42.2
HS98-3637	44.4	44.8	44.5	43.7	45.3	43.9
SN97-2538	42.5	41.9	43.5	43.7	42.5	40.9
SN97-2556	43.0	42.8	42.8	43.6	43.7	42.0
SN97-2558	42.4	40.6	44.6	42.5	43.3	41.1
SN97-2581	43.1	43.0	43.7	42.9	43.8	42.0
SN97-2657	42.5	43.6	44.4	43.0	44.3	37.4
SN97-3334	42.9	43.5	43.9	41.6	43.8	41.7
SN97-3342	43.1	42.6	43.8	43.0	44.1	41.8
SN97-3416	42.9	42.7	44.1	42.6	43.3	41.5
SN97-3421	42.9	42.4	44.3	43.3	42.6	41.8
U98-201506	41.4	42.2	44.2	42.8	42.6	35.3
U98-201758	42.8	42.3	43.5	43.8	43.1	41.4
U98-201913	42.3	42.3	42.9	41.3	42.5	42.5
U98-202454	42.5	42.4	42.9	42.5	44.4	40.3
U98-303527	41.9	42.4	42.7	42.1	42.6	39.8
U98-304463	41.5	40.8	41.9	42.7	43.5	38.6
U98-307162	41.2	40.9	41.5	41.2	41.5	41.0
U98-307723	42.9	42.7	43.9	42.3	43.3	42.0
U98-307735	41.8	41.6	42.7	41.7	42.8	40.3
U98-307749	42.5	42.6	43.0	42.3	42.9	41.5
U98-307917	41.6	40.6	42.2	41.4	43.2	40.6
U98-308035	42.4	41.0	44.1	41.6	43.4	42.2
U98-308038	42.8	41.8	44.1	42.5	43.5	41.8

PRELIMINARY TEST IIIA, 2000

OIL (%)

Strain	Mean 5 Tests	Ames IA	Crawfordsville IA	Urbana IL	Lafayette IN	Wooster OH
IA3010 (III)	19.4	19.0	19.6	20.0	19.2	19.3
IA2052 (II)	19.8	19.1	19.4	20.5	19.9	20.0
Macon (L)	19.7	19.5	19.8	20.2	19.8	19.4
A99-218031	18.4	17.6	18.5	18.8	18.2	18.8
A99-218032	19.2	18.8	19.2	19.5	19.5	19.0
A99-218033	19.6	19.4	19.6	20.3	19.8	19.3
A99-218037	19.1	19.3	18.9	19.8	18.8	19.0
A99-314011	18.8	18.7	18.8	19.0	18.8	19.0
A99-314032	18.5	18.0	18.5	18.8	18.7	18.7
A99-314040	18.9	18.3	19.0	19.0	18.8	19.3
A99-315011	18.9	17.9	19.3	19.3	19.1	19.1
A99-315015	20.1	20.0	20.4	20.4	19.6	20.0
A99-315018	20.2	19.6	19.9	21.2	19.9	20.6
A99-315020	19.0	18.5	19.2	19.1	19.1	19.3
A99-315022	19.5	18.9	19.7	19.6	19.5	19.6
A99-315026	20.0	19.9	20.5	20.6	19.3	19.6
HS98-3621	19.2	19.5	18.9	19.6	18.8	19.1
HS98-3637	18.6	18.7	18.6	19.2	18.4	18.2
SN97-2538	19.4	19.6	19.4	19.8	19.4	18.8
SN97-2556	19.5	20.0	19.5	19.9	19.2	19.0
SN97-2558	19.7	19.9	19.4	19.9	20.1	19.3
SN97-2581	19.6	19.7	19.7	20.0	19.4	19.0
SN97-2657	19.2	18.9	19.4	19.6	19.3	18.6
SN97-3334	19.6	19.4	19.9	19.9	19.8	19.2
SN97-3342	19.5	20.1	19.5	19.7	19.1	18.9
SN97-3416	19.3	19.1	19.1	19.8	19.5	19.1
SN97-3421	19.6	19.9	19.7	19.7	19.5	19.3
U98-201506	19.6	19.0	19.6	19.4	19.3	20.6
U98-201758	19.0	18.8	19.2	19.2	18.8	19.1
U98-201913	19.9	19.3	19.8	20.5	20.1	19.7
U98-202454	19.2	19.1	19.2	19.4	18.8	19.6
U98-303527	19.4	18.9	19.8	19.7	18.8	19.6
U98-304463	19.5	19.6	19.7	19.9	18.7	19.8
U98-307162	19.6	19.3	19.9	20.2	19.0	19.4
U98-307723	20.3	20.2	19.6	21.1	20.9	19.6
U98-307735	19.5	19.0	19.6	19.6	19.6	19.5
U98-307749	20.2	19.8	20.1	20.6	20.2	20.3
U98-307917	19.8	19.7	19.6	20.6	19.4	19.8
U98-308035	19.6	19.5	19.7	19.7	19.9	19.3
U98-308038	19.6	19.4	19.7	19.6	19.7	19.4

Preliminary Test IIIB, 2000

	Strain	Parentage	Generation Composited	Unique Traits
1.	IA3010 (III)	Jacques J285 x Northrup King S29-39	F5	
2.	IA2052 (II)	Northrup King S24-92 x Parker	F5	
3.	Macon (L)	Sherman x Resnik	F5	
4.	Stout (dt1)	Sprite 87 x HC85-6577	F5	dt1
5.	U96-2208 (dt1)	Colfax x A91-701035	F4	
6.	C2003	Probst x CX1393-38	F5	
7.	C2004	A92-725035 x Athow	F5	
8.	C2006	A92-725035 x Athow	F5	
9.	C2010	A92-725035 x Athow	F5	
10.	E98195	IA2022 x Northrup King S19-90	F5	
11.	E98208	Northrup King S20-20 x Pioneer 9231	F5	
12.	E98256	IA2022 x Northrup King S23-12	F5	
13.	HC95-634	HC85-603 x Sprite Rps4	F5	dt1
14.	HC95-1314	Hobbit 87 x HC86-544	F5	dt1
15.	HC95-1495	Hobbit 87 x HC87-5844	F5	dt1
16.	HC95-2137	HC74-634REBC x HC85-6577	F5	dt1
17.	HC96-45PR	HC85-6723(4) x HC78-676BC	BC3F3	dt1, Rps1k
18.	HC96-59PR	HC85-6723(5) x HC74-634REBC	BC4F3	dt1, Rps1k
19.	HC96-64PR	HC85-6723(5) x HC78-676BC	BC4F3	dt1, Rps1k
20.	HC96-513	Charleston BC x HC88-813	F5	dt1
21.	HC97-16PR	Charleston(4) x PI 86.050	BC3F3	dt1, Rps4
22.	HC97-74PR	HC85-607(4) x Hobbit 87	BC3F3	dt1, Rps1k
23.	HC96-1403	HC85-606(4) x Hobbit 87	BC3F3	dt1, Rps1k
24.	HC97-101PR	HC85-618(4) x Sprite 87	BC3F3	dt1, Rps1k
25.	HC97-176PR	Charleston(6) x HC74-634REBC	BC5F3	dt1, Rps1k
26.	HF98-023	Chapman x Probst	F5	Rps1k, Rps3a
27.	HF98-152	Macon x Resnik	F5	Rps1k
28.	HF98-154	Macon x Resnik	F5	Rps1k
29.	K1484	Pioneer 9399 x Stressland	F5	
30.	K1485	Sherman x Stressland	F5	
31.	K1486	Sherman x Stressland	F5	
32.	K1487	Sherman x Probst	F5	
33.	K1489	Sherman x Stressland	F5	
34.	LN95-2233	Thorne x IA3003	F5	
35.	LN95-3800	Iroquois x C1842	F5	
36.	LN95-3858	Iroquois x C1842	F5	
37.	LN96-102	Thorne x LN90-4104	F5	
38.	LN97-14633	LN90-4366 x Stressland	F5	
39.	LN97-14727	LN90-4366 x Cisne	F5	
40.	LN97-14868	LN90-4366 x Cisne	F5	

PRELIMINARY TEST IIIB, 2000

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Humboldt	Shattering Score Manhattan	PR Lafayette Race 7	PS Lafayette a %	P&SB Lafayette n %
IA3010 (III)	PTBSYBIIep	4.0	1.0	R	14	4
IA2052 (II)	WGBDYBfIEp	4.0	2.0	H	46	2
Macon (L)	WTBSYBIIEp	4.0	1.0	S	30	4
Stout (dt1)	WTBSYBIDep	3.0	1.0	R	18	4
U96-2208 (dt1)	WGBSYBfDEp	4.0	3.0	R	28	6
C2003	PTBDYBIIH	4.0	2.0	R	52	2
C2004	PTBDYBIIEp	4.0	1.0	H	34	6
C2006	PTBDYBIIep	4.0	2.0	H	38	8
C2010	PTBDYBIIEp	4.0	1.0	R	26	6
E98195	PGBSYBIIEp	5.0	1.0	R	32	4
E98208	PGBSYBIIep	4.0	1.0	R	50	2
E98256	PGBDYYIep	4.0	1.0	S	38	20
HC95-634	WTBDYBIDEp	4.0	1.0	R	12	0
HC95-1314	WTBSYBIDep	4.0	1.0	R	0	2
HC95-1495	WTBSYBrDep	4.0	1.0	R	8	0
HC95-2137	PTBSYBIDEp	4.0	1.0	S	30	0
HC96-45PR	WTBSYBIDEp	4.0	2.0	R	14	0
HC96-59PR	WTBSYBIDEp	4.0	1.0	R	30	20
HC96-64PR	PTBSYBIDEp	4.0	2.0	R	14	0
HC96-513	WTBSYBIDEp	4.0	2.0	S	6	0
HC97-16PR	PTBDYBIDEp	4.0	3.0	S	26	0
HC97-74PR	PTBSYBIDep	4.0	2.0	R	20	2
HC96-1403	WTBDYBIDEp	4.0	1.0	R	10	0
HC97-101PR	PTBSYBIDEp	4.0	2.0	R	16	0
HC97-176PR	PTBSYBIDEp	4.0	2.0	R	14	0
HF98-023	PTBSYBIIep	4.0	1.0	R	32	0
HF98-152	PTBDYBIIep	4.0	2.0	R	32	6
HF98-154	PTBDYBIIep	4.0	1.0	R	38	8
K1484	PTBDYBIIH	4.0	1.0	S	26	0
K1485	PTBSYBIIep	4.0	1.0	H	12	0
K1486	WTBSYBIIH	4.0	1.0	S	12	2
K1487	WGTSYHIep	4.0	1.0	R	26	4
K1489	PTBDYBIIep	4.0	1.0	S	36	6
LN95-2233	PTBDYIbIep	4.0	1.0	R	12	4
LN95-3800	PGTDYIbIep	4.0	1.0	R	62	0
LN95-3858	PGTDYIbIEp	4.0	1.0	R	30	0
LN96-102	PTBDYBIIep	3.0	2.0	S	38	2
LN97-14633	WTBSYBIIep	4.0	1.0	R	18	4
LN97-14727	WTBSYBIIEp	3.0	1.0	R	4	2
LN97-14868	WTBDYBIIEp	4.0	1.0	R	12	2

PRELIMINARY TEST IIIB, 2000

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 9 Date	Lodging 10 Score	Plant Height 9 In.	Seed Size 10 g/100	Composition Protein 5 %	 Oil 5 %
IA3010 (III)	56.1	2	9/19	1.1	29	13.6	40.7	19.4
IA2052 (II)	55.1	4	-6.3	1.7	35	15.1	42.3	19.6
Macon (L)	53.6	9	3.2	1.4	33	15.7	42.6	19.4
Stout (dt1)	48.7	35	-1.1	1.4	24	15.2	41.0	20.1
U96-2208 (dt1)	57.5	1	-5.4	1.2	25	17.1	41.1	20.2
C2003	44.5	40	-0.8	1.8	35	12.0	46.3	16.8
C2004	51.1	22	-1.7	1.5	33	15.1	41.1	19.9
C2006	50.3	28	2.6	1.4	33	15.6	42.6	19.5
C2010	50.7	26	1.8	1.5	32	15.9	41.7	19.6
E98195	55.4	3	-4.2	1.3	31	15.4	38.9	19.1
E98208	50.9	23	-4.2	1.2	31	15.2	41.7	18.7
E98256	51.8	18	-6.1	1.3	34	13.7	39.9	20.3
HC95-634	48.8	33	3.0	1.2	23	14.4	41.6	20.1
HC95-1314	51.5	19	-1.8	1.3	22	13.3	39.1	21.4
HC95-1495	51.2	20	-0.4	1.1	21	13.2	40.6	20.1
HC95-2137	50.6	27	-0.6	1.3	22	13.4	41.5	19.4
HC96-45PR	51.2	20	4.4	1.3	23	14.7	42.2	19.6
HC96-59PR	45.8	39	4.4	1.1	22	15.2	43.2	19.4
HC96-64PR	48.8	33	6.5	1.1	23	15.8	42.4	19.8
HC96-513	52.9	11	2.4	1.2	23	16.0	40.5	20.3
HC97-16PR	47.7	37	-4.8	1.1	19	14.3	41.9	19.3
HC97-74PR	47.4	38	-1.9	1.1	21	13.5	39.6	21.2
HC96-1403	49.4	31	0.6	1.1	21	14.6	41.5	20.5
HC97-101PR	48.6	36	-0.4	1.1	22	14.8	41.6	20.4
HC97-176PR	49.4	31	1.4	1.2	21	13.0	41.9	19.4
HF98-023	52.3	14	-4.1	1.5	36	14.1	42.6	19.5
HF98-152	52.6	12	0.3	1.7	34	12.9	42.4	19.6
HF98-154	54.3	6	1.3	1.6	34	12.9	43.4	19.1
K1484	52.0	16	6.6	1.8	39	14.4	43.1	19.4
K1485	49.9	30	5.8	1.4	38	13.1	43.4	19.7
K1486	50.9	23	4.4	1.6	36	12.3	41.9	19.7
K1487	51.9	17	0.3	1.4	33	14.7	43.9	19.5
K1489	50.8	25	1.4	1.3	31	11.8	43.2	19.4
LN95-2233	54.1	8	2.7	1.3	32	15.4	42.2	19.8
LN95-3800	50.1	29	3.8	1.3	34	14.9	41.8	20.0
LN95-3858	52.5	13	1.2	1.2	32	14.9	43.6	19.6
LN96-102	52.3	14	3.0	1.6	33	14.4	43.2	20.0
LN97-14633	53.5	10	4.6	1.6	37	13.2	43.3	19.5
LN97-14727	54.3	6	1.8	1.7	32	14.3	42.5	18.7
LN97-14868	54.5	5	0.8	1.4	32	14.3	42.6	18.8

132.1 Days After Planting

PRELIMINARY TEST IIIB, 2000

YIELD (bu/a)

Strain	Mean 10 Tests	Ames IA	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	56.1	59.8	46.3	54.1	53.2	47.3
IA2052 (II)	55.1	61.9	47.1	47.9	45.2	49.2
Macon (L)	53.6	49.6	43.4	54.8	48.9	47.5
Stout (dt1)	48.7	53.5	37.6	53.0	42.7	41.9
U96-2208 (dt1)	57.5	60.9	47.7	63.2	47.3	50.2
C2003	44.5	44.9	39.7	41.0	35.3	42.6
C2004	51.1	49.7	49.3	51.0	54.8	44.2
C2006	50.3	49.9	49.9	46.0	50.7	45.9
C2010	50.7	46.9	48.2	47.9	50.9	44.7
E98195	55.4	57.9	46.5	60.8	51.9	47.0
E98208	50.9	58.3	43.4	52.1	50.6	48.4
E98256	51.8	55.0	49.8	58.5	42.8	44.6
HC95-634	48.8	45.5	46.2	53.0	38.0	47.3
HC95-1314	51.5	47.7	44.1	57.0	43.8	48.3
HC95-1495	51.2	44.8	45.1	57.0	49.5	44.6
HC95-2137	50.6	52.3	45.9	59.1	50.1	41.8
HC96-45PR	51.2	40.4	45.3	57.8	50.8	41.2
HC96-59PR	45.8	42.1	39.4	52.6	48.4	36.6
HC96-64PR	48.8	44.3	38.9	55.8	51.3	40.3
HC96-513	52.9	51.1	48.3	58.6	47.3	50.4
HC97-16PR	47.7	51.9	45.2	49.4	40.8	40.3
HC97-74PR	47.4	50.3	43.0	47.9	42.0	47.5
HC96-1403	49.4	49.4	45.7	49.7	47.6	49.0
HC97-101PR	48.6	45.1	42.6	46.7	42.3	50.5
HC97-176PR	49.4	54.3	39.2	50.4	51.8	46.8
HF98-023	52.3	48.5	42.9	49.9	46.6	49.0
HF98-152	52.6	54.1	43.8	47.2	52.0	49.3
HF98-154	54.3	49.5	40.6	55.7	52.3	53.2
K1484	52.0	48.2	38.1	50.5	53.8	48.1
K1485	49.9	41.3	44.5	42.8	51.6	47.9
K1486	50.9	46.2	44.5	49.4	51.0	46.2
K1487	51.9	52.1	45.3	45.3	47.5	52.0
K1489	50.8	53.1	42.4	44.2	51.7	45.3
LN95-2233	54.1	50.2	49.2	42.8	53.5	47.3
LN95-3800	50.1	46.3	39.1	52.5	49.5	51.3
LN95-3858	52.5	53.5	48.9	46.1	51.1	52.7
LN96-102	52.3	50.4	46.0	48.9	48.3	43.8
LN97-14633	53.5	45.3	48.2	49.3	49.6	46.2
LN97-14727	54.3	52.7	47.8	56.9	51.9	46.5
LN97-14868	54.5	52.4	49.9	62.1	46.8	48.9
C.V. (%)		8.3	7.6	7.9	9.7	5.4
L.S.D. (5%)		8.4	6.9	8.3	9.6	4.3
Row Sp. (In.)		27	27	30	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIIB, 2000

YIELD (bu/a)

Strain	McCreedie MO	Goehner NE	Tekamah NE	Hoytville OH	South Charleston OH
IA3010 (III)	69.1	66.0	59.5	39.2	66.2
IA2052 (II)	50.8	67.2	61.6	50.1	69.5
Macon (L)	58.3	62.9	53.1	51.9	66.0
Stout (dt1)	23.7	62.7	54.6	46.9	70.8
U96-2208 (dt1)	58.2	62.2	65.1	45.3	74.6
C2003	63.0	51.7	46.9	29.2	50.5
C2004	53.1	52.8	53.6	36.9	65.6
C2006	62.5	46.8	48.0	34.4	69.0
C2010	60.7	61.7	45.8	41.7	58.1
E98195	39.8	66.4	68.6	43.2	71.4
E98208	33.4	56.6	61.0	36.9	68.5
E98256	41.4	57.1	59.8	36.9	71.7
HC95-634	21.5	62.2	50.8	48.7	74.5
HC95-1314	44.9	60.2	53.6	43.7	71.6
HC95-1495	39.3	63.7	54.8	38.7	74.5
HC95-2137	30.2	66.5	53.5	38.9	67.7
HC96-45PR	37.1	60.8	53.5	51.0	74.2
HC96-59PR	21.7	58.9	52.7	39.0	67.1
HC96-64PR	37.0	64.7	55.9	30.8	69.1
HC96-513	42.9	64.6	52.8	41.6	71.6
HC97-16PR	27.8	66.1	57.8	28.2	69.6
HC97-74PR	31.8	54.7	50.7	40.0	65.7
HC96-1403	35.6	54.6	57.3	40.9	64.1
HC97-101PR	32.6	59.3	54.0	44.0	68.5
HC97-176PR	31.2	61.4	54.7	37.0	67.0
HF98-023	57.8	56.4	55.5	50.3	66.4
HF98-152	66.0	60.5	43.7	48.2	61.6
HF98-154	71.5	61.2	50.4	47.6	61.1
K1484	69.0	60.4	46.3	44.5	61.1
K1485	67.2	48.9	42.8	47.2	65.1
K1486	65.0	56.4	44.2	41.2	64.8
K1487	63.3	59.7	48.7	41.4	63.9
K1489	55.6	59.4	52.5	36.6	67.0
LN95-2233	59.9	61.0	54.9	53.4	68.6
LN95-3800	52.2	52.8	50.4	44.7	62.0
LN95-3858	49.2	62.3	55.5	36.4	69.3
LN96-102	60.5	61.2	54.0	40.0	70.2
LN97-14633	64.9	61.6	52.2	45.8	72.1
LN97-14727	66.5	61.2	55.7	31.1	73.2
LN97-14868	66.8	58.6	59.4	36.5	63.6
C.V. (%)	6.8	6.0	6.5	10.7	6.5
L.S.D. (5%)	5.7	7.3	7.1	7.5	8.8
Row Sp. (In.)	30	30	30	7.5	7.5
Rows/Plot	4	4	4	8	8
Reps	2	2	2	2	2

PRELIMINARY TEST IIIB, 2000

YIELD RANK

Strain	Yield Rank	Ames IA	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	2	3	14	14	4	19
IA2052 (II)	4	1	12	29	32	9
Macon (L)	9	23	27	13	23	17
Stout (dt1)	35	9	40	15	35	35
U96-2208 (dt1)	1	2	11	1	28	7
C2003	40	35	34	40	40	34
C2004	22	22	4	20	1	32
C2006	28	21	1	35	17	27
C2010	26	29	8	29	15	29
E98195	3	5	13	3	7	22
E98208	23	4	27	19	18	13
E98256	18	6	3	6	34	30
HC95-634	33	32	15	15	39	19
HC95-1314	19	28	25	8	33	14
HC95-1495	20	36	22	8	21	30
HC95-2137	27	14	17	4	19	36
HC96-45PR	20	40	19	7	16	37
HC96-59PR	39	38	35	17	24	40
HC96-64PR	33	37	38	11	12	38
HC96-513	11	17	7	5	28	6
HC97-16PR	37	16	21	25	38	38
HC97-74PR	38	19	29	29	37	17
HC96-1403	31	25	18	24	26	10
HC97-101PR	36	34	31	33	36	5
HC97-176PR	31	7	36	22	9	23
HF98-023	14	26	30	23	31	10
HF98-152	12	8	26	32	6	8
HF98-154	6	24	33	12	5	1
K1484	16	27	39	21	2	15
K1485	30	39	23	38	11	16
K1486	23	31	23	26	14	25
K1487	17	15	19	36	27	3
K1489	25	11	32	37	10	28
LN95-2233	8	20	5	38	3	19
LN95-3800	29	30	37	18	21	4
LN95-3858	13	9	6	34	13	2
LN96-102	14	18	16	28	25	33
LN97-14633	10	33	8	27	20	25
LN97-14727	6	12	10	10	7	24
LN97-14868	5	13	1	2	30	12

PRELIMINARY TEST IIIB, 2000

YIELD RANK

Strain	McCreedie MO	Goehner NE	Tekamah NE	Hoytville OH	South Charleston OH
IA3010 (III)	2	5	6	25	26
IA2052 (II)	22	1	3	5	14
Macon (L)	16	9	24	2	27
Stout (dt1)	38	10	17	10	11
U96-2208 (dt1)	17	12	2	12	1
C2003	11	38	35	39	40
C2004	20	36	20	30	29
C2006	12	40	34	36	17
C2010	13	14	37	18	39
E98195	27	3	1	17	10
E98208	32	31	4	30	19
E98256	26	30	5	30	7
HC95-634	40	12	29	6	2
HC95-1314	24	24	20	16	8
HC95-1495	28	8	15	28	2
HC95-2137	36	2	22	27	21
HC96-45PR	29	21	22	3	4
HC96-59PR	39	28	26	26	22
HC96-64PR	30	6	10	38	16
HC96-513	25	7	25	19	8
HC97-16PR	37	4	8	40	13
HC97-74PR	34	34	30	23	28
HC96-1403	31	35	9	22	32
HC97-101PR	33	27	18	15	19
HC97-176PR	35	16	16	29	23
HF98-023	18	32	13	4	25
HF98-152	7	22	39	7	36
HF98-154	1	17	31	8	37
K1484	3	23	36	14	37
K1485	4	39	40	9	30
K1486	8	32	38	21	31
K1487	10	25	33	20	33
K1489	19	26	27	33	23
LN95-2233	15	20	14	1	18
LN95-3800	21	36	31	13	35
LN95-3858	23	11	12	35	15
LN96-102	14	17	19	23	12
LN97-14633	9	15	28	11	6
LN97-14727	6	17	11	37	5
LN97-14868	5	29	7	34	34

PRELIMINARY TEST IIIB, 2000

MATURITY (date)

Strain	Mean 9 Tests	Ames IA	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	09/19	09/19		09/12	09/18	09/21
IA2052 (II)	-6.3	-8		-9	-12	-2
Macon (L)	3.2	1		6	1	5
Stout (dt1)	-1.1	0		-6	-7	3
U96-2208 (dt1)	-5.4	-7		-6	-11	-1
C2003	-0.8	-4		1	-3	1
C2004	-1.7	-3		-3	0	-3
C2006	2.6	-4		4	4	4
C2010	1.8	-1		5	2	1
E98195	-4.2	-6		-4	-5	-2
E98208	-4.2	-5		-4	-3	-2
E98256	-6.1	-7		-8	-9	-1
HC95-634	3.0	2		1	-1	7
HC95-1314	-1.8	0		-5	-3	1
HC95-1495	-0.4	0		-4	-2	3
HC95-2137	-0.6	-5		-4	-3	3
HC96-45PR	4.4	3		2	4	10
HC96-59PR	4.4	5		3	3	9
HC96-64PR	6.5	10		6	7	11
HC96-513	2.4	4		0	0	5
HC97-16PR	-4.8	-8		-9	-5	0
HC97-74PR	-1.9	-1		-7	-2	4
HC96-1403	0.6	-1		-1	-1	5
HC97-101PR	-0.4	-3		-3	0	3
HC97-176PR	1.4	1		-4	1	4
HF98-023	-4.1	-4		-1	-7	-2
HF98-152	0.3	-3		2	-1	-1
HF98-154	1.3	-2		4	-1	1
K1484	6.6	6		5	10	7
K1485	5.8	4		8	7	6
K1486	4.4	2		6	6	3
K1487	0.3	-2		4	0	3
K1489	1.4	1		1	3	2
LN95-2233	2.7	1		3	2	3
LN95-3800	3.8	1		5	5	7
LN95-3858	1.2	-1		3	-1	5
LN96-102	3.0	-1		4	4	3
LN97-14633	4.6	2		8	7	3
LN97-14727	1.8	-2		2	1	2
LN97-14868	0.8	-2		2	2	2
Date Planted	05/10	05/01		04/28	05/05	05/23
Days to Mature	132	141		137	136	121

PRELIMINARY TEST IIIB, 2000

MATURITY (date)

Strain	McCreedie MO	Goehner NE	Tekamah NE	Hoytville OH	South Charleston OH
IA3010 (III)	09/15	09/22	09/24	09/28	09/18
IA2052 (II)	-4	-6	-8	1	-9
Macon (L)	1	9	3	0	3
Stout (dt1)	-4	7	0	-1	-2
U96-2208 (dt1)	-4	-5	-5	-5	-4
C2003	0	1	1	-2	-1
C2004	-4	1	-1	-1	-2
C2006	1	7	3	2	2
C2010	0	6	4	-0	0
E98195	-4	-1	-6	-7	-3
E98208	-4	-3	-6	-6	-5
E98256	-4	-5	-8	-8	-5
HC95-634	0	8	4	5	2
HC95-1314	-3	-2	-3	1	-2
HC95-1495	-4	6	-1	1	-2
HC95-2137	-2	7	3	-2	-3
HC96-45PR	0	10	4	4	3
HC96-59PR	0	10	4	3	4
HC96-64PR	1	10	4	4	6
HC96-513	0	7	2	3	1
HC97-16PR	-3	-1	-3	-9	-6
HC97-74PR	-3	1	-3	-3	-3
HC96-1403	-2	4	2	1	-2
HC97-101PR	-4	1	2	1	0
HC97-176PR	0	9	3	1	-2
HF98-023	-4	-4	-5	-6	-4
HF98-152	0	5	2	-2	0
HF98-154	0	7	2	1	0
K1484	4	10	4	6	7
K1485	3	9	4	5	6
K1486	2	8	4	5	4
K1487	-1	1	2	-4	-1
K1489	0	4	2	-0	0
LN95-2233	1	5	3	4	3
LN95-3800	1	5	5	2	3
LN95-3858	1	3	0	0	0
LN96-102	0	8	4	3	2
LN97-14633	1	9	4	3	5
LN97-14727	1	4	2	5	1
LN97-14868	0	4	-4	2	1
Date Planted	05/08	05/24	05/16	05/16	05/04
Days to Mature	130	121	131	135	137

PRELIMINARY TEST IIIB, 2000

LODGING (score)

Strain	Mean 10 Tests	Ames IA	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	1.1	1.3	1.8	1.0	1.0	1.0
IA2052 (II)	1.7	1.7	2.8	1.0	1.3	1.0
Macon (L)	1.4	1.5	2.0	1.0	1.0	1.0
Stout (dt1)	1.4	1.2	1.8	1.0	1.0	1.0
U96-2208 (dt1)	1.2	1.2	1.8	1.0	1.0	1.0
C2003	1.8	1.5	2.8	1.0	1.0	1.5
C2004	1.5	1.3	2.0	1.0	1.0	1.0
C2006	1.4	1.4	2.0	1.0	1.0	1.5
C2010	1.5	1.3	2.3	1.3	1.0	1.0
E98195	1.3	1.4	2.3	1.0	1.0	1.0
E98208	1.2	1.3	2.0	1.0	1.0	1.0
E98256	1.3	1.3	2.3	1.0	1.3	1.0
HC95-634	1.2	1.3	2.0	1.0	1.0	1.0
HC95-1314	1.3	1.2	2.0	1.0	1.0	1.0
HC95-1495	1.1	1.2	1.5	1.0	1.3	1.0
HC95-2137	1.3	1.3	2.0	1.0	1.3	1.0
HC96-45PR	1.3	1.3	1.8	1.0	1.3	1.0
HC96-59PR	1.1	1.2	1.5	1.0	1.0	1.0
HC96-64PR	1.1	1.3	1.8	1.0	1.0	1.0
HC96-513	1.2	1.3	2.0	1.0	1.0	1.0
HC97-16PR	1.1	1.3	2.0	1.0	1.0	1.0
HC97-74PR	1.1	1.2	1.8	1.0	1.0	1.0
HC96-1403	1.1	1.2	1.8	1.0	1.0	1.0
HC97-101PR	1.1	1.3	2.0	1.0	1.0	1.0
HC97-176PR	1.2	1.3	1.8	1.0	1.0	1.0
HF98-023	1.5	1.5	2.0	1.0	1.5	1.5
HF98-152	1.7	1.3	2.5	1.0	1.3	1.0
HF98-154	1.6	1.3	2.5	1.0	1.0	1.0
K1484	1.8	1.4	3.0	1.5	1.5	2.0
K1485	1.4	1.3	1.8	1.0	1.0	1.0
K1486	1.6	1.5	2.3	1.3	1.3	1.5
K1487	1.4	1.3	2.0	1.0	1.0	1.0
K1489	1.3	1.4	1.8	1.0	1.0	1.0
LN95-2233	1.3	1.4	2.0	1.0	1.0	1.0
LN95-3800	1.3	1.4	2.0	1.3	1.0	1.0
LN95-3858	1.2	1.2	1.5	1.0	1.0	1.0
LN96-102	1.6	1.3	2.3	1.0	1.0	1.5
LN97-14633	1.6	1.6	2.3	1.8	1.0	2.0
LN97-14727	1.7	1.4	2.5	1.5	1.3	2.0
LN97-14868	1.4	1.4	2.3	1.3	1.3	1.0

PRELIMINARY TEST IIIB, 2000

LODGING (score)

Strain	McCreedie MO	Goehner NE	Tekamah NE	Hoytville OH	South Charleston OH
IA3010 (III)	1.0	1.0	1.0	1.3	1.0
IA2052 (II)	1.8	2.0	2.0	1.2	2.0
Macon (L)	1.1	2.0	2.0	1.2	1.0
Stout (dt1)	1.2	2.0	1.0	1.2	2.3
U96-2208 (dt1)	1.2	1.0	1.5	1.1	1.3
C2003	2.0	2.0	3.0	1.3	2.3
C2004	1.8	2.0	1.5	1.3	1.8
C2006	1.7	1.5	1.5	1.3	1.3
C2010	1.8	2.0	2.0	1.2	1.5
E98195	1.3	1.5	1.0	1.2	1.0
E98208	1.0	1.0	1.0	1.3	1.0
E98256	1.1	1.5	1.0	1.2	1.0
HC95-634	0.8	1.5	1.0	1.1	1.5
HC95-1314	0.8	1.5	1.0	1.2	2.5
HC95-1495	1.0	1.0	1.0	1.2	1.0
HC95-2137	1.1	1.0	1.0	1.2	1.8
HC96-45PR	0.8	1.5	1.0	1.1	2.0
HC96-59PR	0.9	1.0	1.0	1.2	1.0
HC96-64PR	0.9	1.0	1.0	1.3	1.0
HC96-513	0.8	1.0	1.0	1.3	1.8
HC97-16PR	0.5	1.0	1.0	1.2	1.3
HC97-74PR	0.7	1.0	1.0	1.2	1.0
HC96-1403	0.5	1.0	1.0	1.2	1.3
HC97-101PR	0.5	1.0	1.0	1.3	1.3
HC97-176PR	1.2	1.0	1.0	1.2	1.3
HF98-023	1.5	2.0	1.5	1.4	1.3
HF98-152	1.3	2.0	3.0	1.3	2.3
HF98-154	1.6	2.0	2.5	1.2	1.8
K1484	1.7	2.5	1.0	1.3	1.8
K1485	1.9	2.0	1.0	1.3	1.5
K1486	1.8	2.0	1.5	1.3	2.0
K1487	1.6	1.5	2.0	1.2	1.3
K1489	1.2	1.5	1.0	1.3	1.5
LN95-2233	1.1	2.0	1.0	1.2	1.5
LN95-3800	1.0	1.5	1.5	1.3	1.5
LN95-3858	1.1	1.5	1.5	1.3	1.0
LN96-102	1.1	2.5	2.0	1.5	1.5
LN97-14633	1.0	2.0	1.0	1.4	1.8
LN97-14727	1.5	2.0	1.5	1.4	1.8
LN97-14868	0.6	1.5	1.5	1.3	2.0

PRELIMINARY TEST IIIB, 2000

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Ames IA	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	29	34	24	29	33	26
IA2052 (II)	35	44	35	36	33	33
Macon (L)	33	34	31	33	36	34
Stout (dt1)	24	29	23	28	24	19
U96-2208 (dt1)	25	31	28	25	27	25
C2003	35	42	33	33	35	34
C2004	33	36	30	32	34	37
C2006	33	38	33	33	34	38
C2010	32	38	32	34	35	31
E98195	31	33	28	31	34	31
E98208	31	37	28	31	34	36
E98256	34	44	34	37	36	32
HC95-634	23	24	28	23	22	26
HC95-1314	22	29	22	23	22	20
HC95-1495	21	24	19	21	22	21
HC95-2137	22	26	21	23	25	22
HC96-45PR	23	30	22	24	24	23
HC96-59PR	22	23	21	23	23	26
HC96-64PR	23	25	23	24	24	27
HC96-513	23	26	23	26	22	27
HC97-16PR	19	22	20	21	20	17
HC97-74PR	21	23	24	23	20	24
HC96-1403	21	24	23	22	20	24
HC97-101PR	22	26	24	23	19	28
HC97-176PR	21	24	22	24	22	23
HF98-023	36	43	35	36	37	40
HF98-152	34	37	33	34	36	31
HF98-154	34	39	32	34	36	34
K1484	39	44	40	37	40	40
K1485	38	42	36	38	38	41
K1486	36	41	34	35	39	37
K1487	33	36	31	33	33	35
K1489	31	38	29	32	33	35
LN95-2233	32	31	31	29	33	32
LN95-3800	34	40	30	34	36	40
LN95-3858	32	35	33	31	33	34
LN96-102	33	38	30	32	33	36
LN97-14633	37	43	37	36	37	35
LN97-14727	32	37	30	33	34	32
LN97-14868	32	40	31	32	32	31

PRELIMINARY TEST IIIB, 2000

PLANT HEIGHT (inches)

Strain	McCreedie MO	Goehner NE	Tekamah NE	Hoytville OH	South Charleston OH
IA3010 (III)	32	35		20	27
IA2052 (II)	34	44		22	33
Macon (L)	32	43		23	32
Stout (dt1)	18	30		18	26
U96-2208 (dt1)	20	27		19	27
C2003	38	42		22	38
C2004	33	37		22	32
C2006	31	38		22	31
C2010	29	39		22	33
E98195	24	45		22	32
E98208	26	38		21	29
E98256	26	43		19	34
HC95-634	14	25		16	26
HC95-1314	17	25		18	25
HC95-1495	15	28		15	25
HC95-2137	13	29		17	21
HC96-45PR	18	28		16	26
HC96-59PR	13	27		17	26
HC96-64PR	16	29		14	26
HC96-513	12	28		17	26
HC97-16PR	12	26		14	20
HC97-74PR	13	28		16	22
HC96-1403	12	24		18	23
HC97-101PR	13	24		17	27
HC97-176PR	16	22		13	22
HF98-023	39	36		25	35
HF98-152	37	40		23	34
HF98-154	38	39		23	34
K1484	43	44		27	40
K1485	41	46		23	37
K1486	39	38		24	35
K1487	36	42		21	33
K1489	25	43		17	30
LN95-2233	34	39		24	33
LN95-3800	34	41		23	33
LN95-3858	31	38		20	33
LN96-102	30	40		23	34
LN97-14633	35	44		27	39
LN97-14727	32	38		21	32
LN97-14868	30	41		17	34

PRELIMINARY TEST IIIB, 2000

SEED SIZE (g/100)

Strain	Mean 10 Tests	Ames IA	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	13.6	14.4	14.4	13.2	14.1	13.8
IA2052 (II)	15.1	14.2	13.1	13.6	12.4	16.3
Macon (L)	15.7	16.2	16.8	15.3	15.8	15.6
Stout (dt1)	15.2	16.5	15.0	15.0	14.9	16.2
U96-2208 (dt1)	17.1	17.0	16.6	17.5	16.2	19.3
C2003	12.0	13.0	12.7	11.2	10.8	12.2
C2004	15.1	16.4	16.5	13.2	15.0	16.1
C2006	15.6	15.7	16.1	14.4	15.2	18.3
C2010	15.9	16.1	17.0	14.3	15.8	17.9
E98195	15.4	15.4	16.2	14.4	15.1	16.9
E98208	15.2	16.8	15.9	14.2	16.2	16.0
E98256	13.7	14.9	14.4	14.3	13.5	14.4
HC95-634	14.4	14.7	14.8	13.4	14.0	16.1
HC95-1314	13.3	13.9	12.8	12.4	12.9	14.5
HC95-1495	13.2	13.3	11.9	12.1	13.6	15.6
HC95-2137	13.4	13.7	13.5	12.4	13.1	15.4
HC96-45PR	14.7	15.1	15.6	14.0	15.3	13.9
HC96-59PR	15.2	15.0	15.8	14.3	16.0	16.6
HC96-64PR	15.8	15.1	16.7	15.2	15.6	16.8
HC96-513	16.0	16.0	15.6	14.6	17.6	17.4
HC97-16PR	14.3	14.4	13.4	13.7	14.4	15.0
HC97-74PR	13.5	14.5	13.7	12.0	14.1	14.0
HC96-1403	14.6	15.3	14.6	14.9	15.7	15.3
HC97-101PR	14.8	14.5	14.7	13.8	15.1	16.0
HC97-176PR	13.0	13.5	12.4	11.5	13.0	13.6
HF98-023	14.1	13.7	15.0	13.8	13.9	14.9
HF98-152	12.9	13.5	13.7	12.4	13.3	13.5
HF98-154	12.9	12.8	13.7	12.3	13.3	14.1
K1484	14.4	15.1	15.7	13.1	14.7	15.6
K1485	13.1	13.0	13.4	12.1	12.6	14.7
K1486	12.3	11.9	12.6	12.4	12.8	13.3
K1487	14.7	14.1	15.4	14.1	13.5	14.8
K1489	11.8	12.6	12.2	10.9	12.0	13.4
LN95-2233	15.4	15.2	16.5	15.5	15.7	16.2
LN95-3800	14.9	15.5	15.2	16.4	15.1	15.7
LN95-3858	14.9	17.0	15.4	14.5	14.7	16.3
LN96-102	14.4	14.0	15.0	14.5	14.0	16.1
LN97-14633	13.2	13.2	14.3	13.7	13.1	14.5
LN97-14727	14.3	14.0	15.0	15.0	14.4	15.6
LN97-14868	14.3	14.5	15.2	15.1	14.8	14.6

PRELIMINARY TEST IIIB, 2000

SEED SIZE (g/100)

Strain	McCreedie MO	Goehner NE	Tekamah NE	Hoytville OH	South Charleston OH
IA3010 (III)	12.0	13.3	13.0	13.0	15.1
IA2052 (II)	14.0	15.3	21.0	15.9	15.2
Macon (L)	15.0	16.4	14.1	15.6	16.7
Stout (dt1)	14.0	14.6	14.1	14.7	17.1
U96-2208 (dt1)	16.0	15.5	16.3	17.9	18.7
C2003	12.0	11.6	12.3	11.2	12.5
C2004	16.0	13.8	14.5	14.9	15.0
C2006	17.0	14.8	13.6	14.9	15.7
C2010	16.0	15.6	15.4	14.4	16.5
E98195	14.0	15.4	14.8	14.2	17.0
E98208	13.0	14.1	14.8	14.8	16.5
E98256	11.0	12.8	13.2	13.0	15.4
HC95-634	13.0	14.5	13.0	14.1	16.0
HC95-1314	13.0	12.8	13.9	12.6	14.2
HC95-1495	13.0	12.9	12.4	13.1	14.1
HC95-2137	13.0	13.4	13.2	12.7	13.8
HC96-45PR	14.0	12.9	13.1	15.8	17.1
HC96-59PR	15.0	14.1	12.8	15.0	17.2
HC96-64PR	16.0	14.7	14.0	16.6	17.1
HC96-513	16.0	14.3	14.5	16.0	17.6
HC97-16PR	15.0	14.5	13.2	13.7	16.0
HC97-74PR	12.0	13.2	13.8	13.1	15.0
HC96-1403	14.0	12.6	13.2	14.7	15.4
HC97-101PR	14.0	13.6	14.2	15.3	16.4
HC97-176PR	12.0	13.4	13.8	13.6	13.5
HF98-023	15.0	12.7	13.6	13.2	15.2
HF98-152	12.0	13.5	12.4	11.9	13.1
HF98-154	12.0	13.5	11.7	12.5	13.5
K1484	13.0	14.8	13.1	13.5	15.2
K1485	12.0	13.5	13.2	12.5	14.1
K1486	13.0	12.0	11.9	11.6	11.5
K1487	13.0	13.6	20.1	13.6	14.7
K1489	11.0	11.5	11.4	11.2	12.1
LN95-2233	14.0	15.2	14.6	13.9	16.6
LN95-3800	14.0	13.1	14.9	14.0	14.6
LN95-3858	13.0	14.8	14.2	14.2	15.3
LN96-102	15.0	13.9	13.2	13.9	14.2
LN97-14633	13.0	12.9	12.3	11.6	13.7
LN97-14727	13.0	13.3	13.9	13.5	15.1
LN97-14868	14.0	14.0	11.9	14.0	15.0

PRELIMINARY TEST IIIB, 2000

PROTEIN (%)

Strain	Mean 5 Tests	Ames IA	Crawfordsville IA	Urbana IL	Lafayette IN	Wooster OH
IA3010 (III)	40.7	39.4	42.3	40.7	41.7	39.3
IA2052 (II)	42.3	42.2	44.1	43.1	41.5	40.7
Macon (L)	42.6	41.6	43.9	43.5	42.7	41.2
Stout (dt1)	41.0	40.4	42.3	40.3	41.7	40.5
U96-2208 (dt1)	41.1	41.3	42.1	40.2	40.3	41.6
C2003	46.3	46.8	47.9	46.2	46.3	44.1
C2004	41.1	41.1	41.5	41.5	41.8	39.5
C2006	42.6	43.0	42.5	43.1	43.4	40.7
C2010	41.7	41.8	42.3	43.0	42.0	39.6
E98195	38.9	38.5	39.1	39.1	40.3	37.5
E98208	41.7	40.7	43.1	42.7	42.6	39.4
E98256	39.9	41.2	40.1	40.0	39.0	39.4
HC95-634	41.6	41.6	42.1	40.6	41.8	41.6
HC95-1314	39.1	39.8	40.6	38.4	38.5	38.3
HC95-1495	40.6	41.7	39.5	42.0	40.6	39.5
HC95-2137	41.5	41.6	42.3	41.2	42.7	39.6
HC96-45PR	42.2	41.6	43.2	41.6	42.4	42.2
HC96-59PR	43.2	42.9	44.1	43.1	43.4	42.6
HC96-64PR	42.4	42.3	43.6	41.9	42.6	41.6
HC96-513	40.5	41.1	41.0	40.4	40.9	39.2
HC97-16PR	41.9	43.6	41.6	41.3	42.5	40.6
HC97-74PR	39.6	40.2	40.4	38.2	40.3	38.8
HC96-1403	41.5	41.1	41.8	40.9	41.6	41.9
HC97-101PR	41.6	41.3	43.0	40.5	41.9	41.2
HC97-176PR	41.9	42.3	42.4	41.2	42.1	41.3
HF98-023	42.6	42.7	43.3	42.3	43.6	40.9
HF98-152	42.4	42.6	43.6	42.1	43.3	40.1
HF98-154	43.4	43.3	44.5	43.5	43.8	41.8
K1484	43.1	42.0	45.2	44.1	43.7	40.6
K1485	43.4	43.4	43.4	45.1	44.0	41.0
K1486	41.9	41.8	43.2	42.0	43.1	39.6
K1487	43.9	44.6	44.6	44.1	43.0	43.1
K1489	43.2	43.3	43.6	43.1	44.3	41.7
LN95-2233	42.2	41.2	43.2	44.2	42.4	40.0
LN95-3800	41.8	43.0	43.5	41.0	42.5	38.9
LN95-3858	43.6	44.2	44.4	43.5	43.6	42.4
LN96-102	43.2	42.3	44.4	43.9	44.1	41.1
LN97-14633	43.3	44.0	44.4	43.8	43.2	41.1
LN97-14727	42.5	42.8	43.6	42.8	42.9	40.6
LN97-14868	42.6	43.1	42.7	43.0	43.3	40.8

PRELIMINARY TEST IIIB, 2000

OIL (%)

Strain	Mean 5 Tests	Ames IA	Crawfordsville IA	Urbana IL	Lafayette IN	Wooster OH
IA3010 (III)	19.4	19.7	19.1	19.6	19.3	19.2
IA2052 (II)	19.6	19.6	19.2	20.2	20.0	19.2
Macon (L)	19.4	19.5	19.3	19.2	20.1	19.1
Stout (dt1)	20.1	20.3	20.1	20.1	20.4	19.8
U96-2208 (dt1)	20.2	19.3	20.3	21.1	20.4	19.9
C2003	16.8	16.2	16.5	17.0	17.0	17.1
C2004	19.9	19.9	20.2	20.1	19.5	20.0
C2006	19.5	18.9	19.8	19.7	19.3	19.7
C2010	19.6	19.7	20.0	19.3	19.5	19.7
E98195	19.1	18.9	19.5	19.4	19.1	18.9
E98208	18.7	18.3	18.5	19.2	18.8	18.9
E98256	20.3	19.9	19.9	20.7	21.2	20.0
HC95-634	20.1	19.7	20.3	21.2	20.0	19.4
HC95-1314	21.4	21.0	20.8	22.4	21.9	21.1
HC95-1495	20.1	20.1	19.5	19.9	20.8	20.2
HC95-2137	19.4	18.9	19.1	20.4	19.2	19.5
HC96-45PR	19.6	20.0	19.4	20.1	19.5	19.0
HC96-59PR	19.4	18.9	18.9	20.6	19.7	18.7
HC96-64PR	19.8	19.1	19.7	20.7	20.1	19.3
HC96-513	20.3	20.1	19.8	20.8	20.5	20.6
HC97-16PR	19.3	18.8	19.1	20.4	19.6	18.7
HC97-74PR	21.2	22.3	20.6	21.7	21.0	20.4
HC96-1403	20.5	20.8	20.3	21.4	20.3	19.5
HC97-101PR	20.4	19.9	20.1	21.5	20.5	19.8
HC97-176PR	19.4	19.2	19.0	20.4	19.6	18.8
HF98-023	19.5	18.8	19.2	20.2	19.8	19.2
HF98-152	19.6	19.8	19.0	19.9	19.4	19.8
HF98-154	19.1	18.7	18.7	19.5	19.4	19.1
K1484	19.4	20.2	18.8	19.4	19.3	19.3
K1485	19.7	19.5	20.2	19.6	19.6	19.6
K1486	19.7	19.6	19.4	20.0	19.7	19.7
K1487	19.5	19.1	19.8	19.2	20.0	19.3
K1489	19.4	19.6	19.4	19.2	19.6	19.2
LN95-2233	19.8	20.0	19.9	19.6	19.8	19.7
LN95-3800	20.0	19.4	19.6	20.2	20.1	20.5
LN95-3858	19.6	20.0	19.5	19.8	19.3	19.6
LN96-102	20.0	19.6	20.2	20.1	19.9	20.0
LN97-14633	19.5	19.3	19.6	19.4	20.2	19.1
LN97-14727	18.7	18.5	18.5	19.0	19.0	18.2
LN97-14868	18.8	18.4	19.1	19.2	19.0	18.4

Uniform Test IV, 2000

	Strain	Parentage	Previous Testing	Generation Composited	Unique Traits
1.	HS93-4118 (IV)	IA2007 x Dairyland DSR 304	4	F5	Rps1c
2.	Macon (III)	Sherman x Resnik	4	F5	
3.	Mustang (L) (SCN)	Fayette x Pyramid	3	F5	SCN
4.	Strong (dt1)	Sprite 87 x HC85-6577	-	F5	dt1
5.	C1981	Olympus x CX1307-205	PT IVA	F5	
6.	HC94-2664	HC86-3403 x Resnik	1	F5	Dt1
7.	HC94-2727	HC84-4850 x Resnik	1	F5	Dt1
8.	HC95-933	Sprite 87 x Conrad	PT IVB	F4	dt1
9.	HC95-3798	A87-196014 x HC84-4850	PT IVA	F4	Dt1
10.	HC95-4337	HC85-164(2) x Hobbit 87	PT IVB	F4	dt1
11.	HC96-182PR	Stressland(4) x HC78-676BC	PT IVA	BC3F4	Dt1
12.	K1410	KS4694 x C1842	1	F5	
13.	K1454	KS4694 x HS90-3487	PT IVB	F5	
14.	K1457	LG89-6661 x KS4694	PT IVB	F5	
15.	K1459	Asgrow A4715 x K88-22-42	PT IVB	F5	
16.	LN95-5910	Jack x C1842	1	F5	SCN
17.	LN95-15230	Jack x Hartwig	SCN PT IV	F5	
18.	Md95-5358	S88-19561 x Corsica	1	F5	SCN 3
19.	Md96-5722	KS4694 x Corsica	PT IVA	F5	
20.	SS95-3486	Asgrow A3242 x Northrup King S39-11	SCN UT IV	F5	SCN
21.	SS95-11009	Hamilton x Delsoy 4500	SCN UT IV	F5	SCN
22.	U97-3635	UP3YC1	1	F7	

UNIFORM TEST IV, 2000

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Yellow Medicine Co.	Shattering Score Man-hattan	PR Laf. Race 7	PS Lafayette a %	P&SB Vincennes n %
HS93-4118 (IV)	WGBDYBIlep	4.8	1.0	R	34	16
Macon (III)	WTBSYBIlEp	4.8	1.0	S	30	4
Mustang (L) (SCN)	WGTSYBflEp	5.0	1.0	S	42	20
Strong (dt1)	WTBDYBlDep	4.8	1.0	R	14	4
C1981	PTBDYBIlEp	5.0	1.0	S	6	4
HC94-2664	PTBDYBIlEp	5.0	1.0	R	14	4
HC94-2727	PTBSYBIlEp	4.8	2.0	R	6	4
HC95-933	PTBSYBlDEp	4.8	1.0	S	16	6
HC95-3798	WTBSYBIlep	4.8	1.0	R	38	24
HC95-4337	P+WTBSYBlDep	5.0	1.0	R	6	8
HC96-182PR	PTBDYBIlEp	5.0	1.0	H	26	8
K1410	PGBDYIblEp	4.5	1.0	R	36	4
K1454	PGBDYBflep	4.5	2.0	R	36	8
K1457	WGBSYBflep	4.8	1.0	H	38	4
K1459	WGTSYBflep	4.8	1.0	S	22	4
LN95-5910	PGBDYYIep	5.0	1.0	R	48	32
LN95-15230	WGTSYYIep	5.0	1.0	H	36	22
Md95-5358	PTBDYBIlEp	5.0	1.0	S	20	30
Md96-5722	PGBDYIblep	4.8	1.0	S	42	20
SS95-3486	WTBDYBIlEp	4.5	1.0	R	22	36
SS95-11009	WGTSYBflEp	4.8	1.0	S	50	28
U97-3635	PGBDYIblep	5.0	1.0	R	46	14

UNIFORM TEST IV, 2000

SDS DATA

Strain	SDS	
	Valmeyer DX	Carmi DX
HS93-4118 (IV)	51.3	0.7
Macon (III)	64.1	12.1
Mustang (L) (SCN)	59.1	55.2
Strong (dt1)	50.0	33.2
C1981	75.3	18.3
HC94-2664	49.9	26.2
HC94-2727	76.9	35.0
HC95-933	77.4	58.3
HC95-3798	92.7	90.6
HC95-4337	30.6	37.2
HC96-182PR	78.4	26.0
K1410	39.0	5.2
K1454	33.1	40.9
K1457	20.7	0.0
K1459	68.4	45.3
LN95-5910	65.3	31.3
LN95-15230	29.6	5.7
Md95-5358	25.4	39.2
Md96-5722	9.1	10.5
SS95-3486	60.9	81.2
SS95-11009	32.4	30.0
U97-3635	82.6	66.4

UNIFORM TEST IV, 2000

REGIONAL SUMMARY

No. of Tests Strain	Yield 12 bu/a	Rank 12 No.	Maturity 12 Date	Lodging 13 Score	Plant Height 13 In.	Seed Size 12 g/100	Composition Protein 5 %	 Oil 5 %
HS93-4118 (IV)	59.2	2	9/23	1.7	33	14.3	42.1	19.3
Macon (III)	58.3	5	-1.1	1.4	33	16.6	42.6	19.9
Mustang (L) (SCN)	51.3	22	5.5	2.1	39	13.6	43.5	18.6
Strong (dt1)	56.2	12	0.7	1.5	26	17.1	43.0	20.1
C1981	60.3	1	5.6	2.3	40	13.1	44.9	18.8
HC94-2664	55.3	16	-0.7	1.8	37	14.2	44.2	19.7
HC94-2727	57.9	8	1.2	2.2	38	13.7	42.7	19.7
HC95-933	57.8	9	1.2	1.7	26	14.1	43.1	19.1
HC95-3798	55.2	17	5.2	2.9	42	14.3	42.7	19.2
HC95-4337	55.2	17	0.6	1.3	25	13.2	41.2	20.1
HC96-182PR	58.3	5	3.7	2.1	40	14.2	44.6	19.3
K1410	58.8	4	1.6	1.3	34	15.5	43.1	20.0
K1454	56.1	14	4.2	1.8	37	13.8	42.6	19.8
K1457	56.6	11	2.9	1.9	36	16.3	44.2	19.1
K1459	56.7	10	3.0	1.8	36	14.1	43.6	19.3
LN95-5910	55.0	19	-0.3	1.8	40	13.8	41.4	20.5
LN95-15230	54.3	20	0.1	3.1	39	12.6	43.8	17.9
Md95-5358	55.4	15	2.7	2.3	39	16.8	42.4	19.2
Md96-5722	58.0	7	3.6	1.9	39	16.5	42.4	19.8
SS95-3486	56.2	12	1.0	1.9	37	13.5	43.2	19.5
SS95-11009	54.0	21	-1.2	2.0	33	16.1	41.7	19.8
U97-3635	59.0	3	-0.8	2.6	34	15.1	41.8	20.0

131.3 Days After Planting

UNIFORM TEST IV, 2000

1999-2000 2-YEAR MEAN

No. of Tests Strain	Yield 27 bu/a	Rank 27 No.	Maturity 27 Date	Lodging 29 Score	Plant Height 29 In.	Seed Size 27 g/100	Composition Protein 8 %	 Oil 8 %
HS93-4118	54.3	1	9/22	1.6	33	14.5	41.5	19.3
Macon	52.8	4	-0.7	1.4	32	15.8	41.7	20.1
Mustang	48.7	9	4.6	1.8	38	13.7	43.2	18.5
HC94-2664	51.4	8	-0.8	1.6	35	14.1	44.0	19.9
HC94-2727	52.7	5	0.9	1.8	37	13.6	41.7	20.2
K1410	53.6	3	1.7	1.3	33	15.3	42.5	20.3
LN95-5910	51.7	6	-0.4	1.7	39	13.4	40.4	20.8
Md95-5358	51.5	7	2.5	1.9	37	16.5	42.4	19.3
U97-3635	54.3	2	-1.4	1.9	35	15.0	40.5	20.5

129.3 Days After Planting

UNIFORM TEST IV, 2000

YIELD (bu/a)

Strain	Mean 12 Tests	Middle-town DE	Belle-ville* IL	Newton IL	Urbana IL	Ullin IL	Lafayette IN
HS93-4118 (IV)	59.2	60.2	46.5	59.6	58.6	72.0	50.5
Macon (III)	58.3	66.2	52.2	60.4	56.6	61.4	47.2
Mustang (L) (SCN)	51.3	61.0	50.1	58.3	50.4	52.7	47.1
Strong (dt1)	56.2	62.0	36.7	58.9	60.3	67.9	48.3
C1981	60.3	64.5	51.7	71.8	57.5	68.5	53.6
HC94-2664	55.3	66.1	44.2	44.9	56.3	63.8	47.0
HC94-2727	57.9	66.2	60.4	54.9	59.8	64.9	49.7
HC95-933	57.8	67.3	41.9	61.9	61.8	58.6	55.4
HC95-3798	55.2	64.8	28.5	52.2	54.9	65.7	46.9
HC95-4337	55.2	51.7	40.3	57.7	60.8	60.5	52.9
HC96-182PR	58.3	70.4	47.7	62.1	58.5	64.1	46.0
K1410	58.8	63.6	44.9	60.9	59.3	66.7	52.0
K1454	56.1	63.8	45.1	52.5	50.1	63.9	44.2
K1457	56.6	63.4	51.7	54.9	50.4	54.8	49.9
K1459	56.7	64.5	41.4	55.6	56.0	58.4	52.7
LN95-5910	55.0	62.2	35.8	56.7	59.1	55.4	49.5
LN95-15230	54.3	54.9	47.3	59.2	58.0	49.9	53.3
Md95-5358	55.4	60.3	60.1	49.3	57.8	59.6	51.1
Md96-5722	58.0	70.3	50.4	60.0	53.2	64.0	43.7
SS95-3486	56.2	64.8	43.2	54.5	54.8	67.5	52.3
SS95-11009	54.0	55.5	54.8	52.0	57.1	57.4	47.1
U97-3635	59.0	66.0	48.7	62.4	51.4	67.5	47.8
C.V. (%)		6.8	22.2	10.7	6.2	8.8	7.3
L.S.D. (5%)		7.1	17.4	10.1	5.8	14.4	5.9
Row Sp. (In.)		15	30	30	30	30	24
Rows/Plot		5	4	4	4	4	4
Reps		3	3	3	3	3	3

* Data not included in the mean.

UNIFORM TEST IV, 2000

YIELD (bu/a)

Strain	Manhattan KS	Ottawa KS	Lexing-ton KY	Queens-town MD	Midway MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	60.2	13.3	70.1	64.0	71.4	59.7	71.4
Macon (III)	56.5	15.8	74.8	69.7	70.0	57.4	63.5
Mustang (L) (SCN)	46.2	11.3	73.8	48.2	60.6	47.4	58.6
Strong (dt1)	44.7	14.9	67.6	68.5	57.7	58.3	65.2
C1981	57.5	14.1	88.1	61.0	73.1	53.7	60.1
HC94-2664	57.0	15.4	69.0	62.1	64.4	56.8	60.7
HC94-2727	55.2	16.2	73.0	65.5	63.2	60.7	66.1
HC95-933	53.8	14.7	73.7	69.5	65.3	47.3	64.4
HC95-3798	48.6	14.9	74.3	60.9	61.4	55.6	62.5
HC95-4337	48.5	13.8	62.0	65.0	63.1	58.0	68.1
HC96-182PR	55.4	15.0	72.4	61.4	67.8	62.7	63.9
K1410	59.8	15.4	72.6	66.3	76.4	47.4	65.3
K1454	53.8	13.1	75.7	64.2	71.7	57.4	62.5
K1457	56.1	14.8	80.8	65.3	69.4	59.3	59.9
K1459	56.5	16.8	73.7	59.1	70.5	50.6	65.8
LN95-5910	58.0	11.1	75.9	58.8	67.7	44.5	60.8
LN95-15230	52.9	13.7	75.6	56.4	66.9	54.3	57.0
Md95-5358	54.4	12.8	72.2	61.1	65.6	60.0	60.6
Md96-5722	55.2	12.5	71.7	69.3	73.1	64.0	59.4
SS95-3486	51.3	13.5	77.6	59.3	67.0	51.8	59.8
SS95-11009	56.1	16.6	71.9	59.5	61.8	47.9	65.7
U97-3635	61.0	14.4	74.7	65.4	79.4	56.7	61.7
C.V. (%)	5.0	9.1	7.8	5.2	8.8	12.9	7.2
L.S.D. (5%)	3.8	1.8	7.8	5.4	9.0	12.7	7.5
Row Sp. (In.)	30	30	15	24	30	15	7.5
Rows/Plot	4	4	6	4	4	6	8
Reps	3	3	3	3	3	3	3

UNIFORM TEST IV, 2000

YIELD RANK

Strain	Yield Rank	Middle-town DE	Belle-ville IL	Newton IL	Urbana IL	Ullin IL	Lafayette IN
HS93-4118 (IV)	2	19	12	8	7	1	9
Macon (III)	5	4	4	6	13	13	15
Mustang (L) (SCN)	22	17	8	11	20	21	16
Strong (dt1)	12	16	20	10	3	3	13
C1981	1	10	5	1	11	2	2
HC94-2664	16	6	15	22	14	12	18
HC94-2727	8	4	1	15	4	8	11
HC95-933	9	3	17	4	1	16	1
HC95-3798	17	8	22	19	16	7	19
HC95-4337	17	22	19	12	2	14	4
HC96-182PR	5	1	10	3	8	9	20
K1410	4	13	14	5	5	6	7
K1454	14	12	13	18	22	11	21
K1457	11	14	6	16	20	20	10
K1459	10	10	18	14	15	17	5
LN95-5910	19	15	21	13	6	19	12
LN95-15230	20	21	11	9	9	22	3
Md95-5358	15	18	2	21	10	15	8
Md96-5722	7	2	7	7	18	10	22
SS95-3486	12	8	16	17	17	5	6
SS95-11009	21	20	3	20	12	18	16
U97-3635	3	7	9	2	19	4	14

UNIFORM TEST IV, 2000

YIELD RANK

Strain	Manhattan KS	Ottawa KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	2	17	19	11	6	5	1
Macon (III)	7	4	7	1	8	9	10
Mustang (L) (SCN)	21	21	10	22	21	19	21
Strong (dt1)	22	8	21	4	22	7	7
C1981	5	13	1	15	3	15	17
HC94-2664	6	5	20	12	16	11	15
HC94-2727	12	3	13	6	17	3	3
HC95-933	15	11	11	2	15	21	8
HC95-3798	19	8	9	16	20	13	11
HC95-4337	20	14	22	9	18	8	2
HC96-182PR	11	7	15	13	10	2	9
K1410	3	5	14	5	2	19	6
K1454	15	18	5	10	5	9	11
K1457	9	10	2	8	9	6	18
K1459	7	1	11	19	7	17	4
LN95-5910	4	22	4	20	11	22	14
LN95-15230	17	15	6	21	13	14	22
Md95-5358	14	19	16	14	14	4	16
Md96-5722	12	20	18	3	3	1	20
SS95-3486	18	16	3	18	12	16	19
SS95-11009	9	2	17	17	19	18	5
U97-3635	1	12	8	7	1	12	13

UNIFORM TEST IV, 2000

MATURITY (date)

Strain	Mean 12 Tests	Middle-town DE	Belle-ville IL	Newton IL	Urbana IL	Ullin IL	Lafayette IN
HS93-4118 (IV)	09/23	10/06	09/15	09/13	09/19	09/19	09/22
Macon (III)	-1.1	-2	1	2	1	0	-3
Mustang (L) (SCN)	5.5	5	2	9	6	3	9
Strong (dt1)	0.7	-2	2	3	-1	2	-1
C1981	5.6	1	6	10	5	4	10
HC94-2664	-0.7	-2	-2	-1	1	0	-1
HC94-2727	1.2	1	4	2	2	3	2
HC95-933	1.2	1	1	4	-1	3	1
HC95-3798	5.2	4	-1	8	3	5	8
HC95-4337	0.6	0	-1	2	2	4	1
HC96-182PR	3.7	3	4	8	2	3	5
K1410	1.6	1	4	2	3	1	2
K1454	4.2	3	4	8	2	4	5
K1457	2.9	0	6	2	2	3	4
K1459	3.0	0	3	4	3	5	5
LN95-5910	-0.3	2	-4	-3	1	0	-2
LN95-15230	0.1	-1	-0	2	2	-3	0
Md95-5358	2.7	1	6	4	2	3	6
Md96-5722	3.6	-1	4	4	4	5	5
SS95-3486	1.0	-2	-2	4	2	1	4
SS95-11009	-1.2	-3	-1	-0	-1	-1	-5
U97-3635	-0.8	-1	-1	1	-0	-3	-3
Date Planted	05/14	06/05	05/05	05/04	04/28	05/18	05/05
Days to Mature	131	123	133	132	144	124	140

UNIFORM TEST IV, 2000

MATURITY (date)

Strain	Manhattan KS	Ottawa KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	09/29		09/16	10/04	09/26	09/18	09/21
Macon (III)	-2		-3	-1	-3	0	-1
Mustang (L) (SCN)	-1		10	2	4	4	9
Strong (dt1)	0		2	1	-3	1	5
C1981	-0		7	2	2	8	12
HC94-2664	0		-1	-3	-3	0	2
HC94-2727	-1		2	1	-2	2	2
HC95-933	0		2	2	0	1	1
HC95-3798	1		9	4	2	5	8
HC95-4337	-1		1	-2	-3	0	2
HC96-182PR	-2		3	1	1	7	8
K1410	0		4	0	0	3	2
K1454	-1		6	2	2	7	8
K1457	1		5	1	1	5	7
K1459	0		5	2	2	4	3
LN95-5910	-0		2	2	-2	0	-3
LN95-15230	-4		4	2	-3	1	1
Md95-5358	-2		4	2	1	4	5
Md96-5722	1		7	2	1	6	5
SS95-3486	-4		4	0	-1	0	3
SS95-11009	-2		4	1	0	-1	-4
U97-3635	-2		-1	1	-3	1	1
Date Planted	05/23		05/12	06/08	05/19	05/04	05/04
Days to Mature	129		127	118	130	137	140

UNIFORM TEST IV, 2000

LODGING (score)

Strain	Mean 13 Tests	Middle-town DE	Belle-ville IL	Newton IL	Urbana IL	Ullin IL	Lafayette IN
HS93-4118 (IV)	1.7	2.3	1.7	4.0	1.0	1.3	1.5
Macon (III)	1.4	1.7	2.0	3.7	1.0	1.5	1.2
Mustang (L) (SCN)	2.1	3.3	2.0	3.8	1.7	1.7	1.2
Strong (dt1)	1.5	2.3	1.0	3.0	1.0	1.7	1.0
C1981	2.3	3.7	2.8	3.7	1.7	2.8	1.3
HC94-2664	1.8	3.0	1.8	3.2	1.5	1.5	1.0
HC94-2727	2.2	3.7	2.3	3.5	1.5	2.3	1.8
HC95-933	1.7	2.0	1.0	3.5	1.2	2.5	1.2
HC95-3798	2.9	4.3	3.5	4.0	1.8	3.8	2.0
HC95-4337	1.3	1.0	1.0	3.0	1.0	1.3	1.0
HC96-182PR	2.1	3.7	1.8	3.3	1.5	2.3	1.0
K1410	1.3	1.3	1.5	3.2	1.2	1.3	1.0
K1454	1.8	3.7	1.8	3.7	1.3	1.8	1.2
K1457	1.9	3.7	2.2	3.5	1.3	1.2	1.5
K1459	1.8	3.0	2.0	3.2	1.5	1.5	1.2
LN95-5910	1.8	3.0	1.5	3.5	1.2	1.3	1.3
LN95-15230	3.1	6.7	5.0	4.5	1.5	3.2	2.7
Md95-5358	2.3	4.0	1.8	3.7	1.5	2.0	1.7
Md96-5722	1.9	3.3	1.5	3.8	1.3	1.7	1.2
SS95-3486	1.9	2.7	1.5	4.0	1.3	2.0	1.2
SS95-11009	2.0	3.3	2.2	3.8	1.0	1.5	1.7
U97-3635	2.6	5.3	3.2	5.0	1.2	3.0	2.0

UNIFORM TEST IV, 2000

LODGING (score)

Strain	Manhattan KS	Ottawa KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	1.0	1.0	1.2	2.5	2.0	1.4	1.0
Macon (III)	1.0	1.0	1.0	1.7	1.0	1.2	1.2
Mustang (L) (SCN)	1.7	1.0	2.0	3.5	2.0	1.7	1.5
Strong (dt1)	1.0	1.0	1.0	2.0	1.0	1.2	1.3
C1981	1.0	1.0	2.2	3.0	3.0	1.7	2.0
HC94-2664	1.3	1.0	1.3	2.2	2.0	1.8	1.5
HC94-2727	1.3	1.0	1.8	3.2	2.0	2.3	1.8
HC95-933	1.0	1.0	1.2	2.0	1.0	1.5	2.0
HC95-3798	2.3	1.0	2.8	3.7	4.0	3.6	2.0
HC95-4337	1.0	1.0	1.0	1.7	1.0	1.3	1.3
HC96-182PR	1.3	1.0	2.0	2.7	3.0	1.7	1.8
K1410	1.0	1.0	1.3	1.5	1.0	1.3	1.0
K1454	1.3	1.0	1.8	2.5	1.0	1.5	1.2
K1457	1.7	1.0	1.5	2.3	2.0	1.9	1.5
K1459	1.0	1.0	1.7	2.3	2.0	1.7	1.2
LN95-5910	2.3	1.0	1.5	2.5	2.0	1.2	1.2
LN95-15230	2.7	1.0	2.8	3.5	4.0	2.5	2.7
Md95-5358	1.7	1.0	2.2	3.3	3.0	1.6	1.8
Md96-5722	1.3	1.0	2.0	3.0	1.0	2.4	1.3
SS95-3486	1.0	1.0	1.8	2.7	1.0	2.1	1.7
SS95-11009	1.7	1.0	1.7	3.0	2.0	1.7	1.7
U97-3635	2.0	1.0	2.3	3.8	1.0	2.4	2.5

UNIFORM TEST IV, 2000

PLANT HEIGHT (inches)

Strain	Mean 13 Tests	Middle-town DE	Belle-ville IL	Newton IL	Urbana IL	Ullin IL	Lafayette IN
HS93-4118 (IV)	33	33	32	38	33	35	35
Macon (III)	33	32	31	39	33	35	33
Mustang (L) (SCN)	39	38	37	43	38	40	39
Strong (dt1)	26	37	19	30	25	24	25
C1981	40	40	40	46	36	41	43
HC94-2664	37	34	35	43	35	39	35
HC94-2727	38	36	38	44	39	42	39
HC95-933	26	22	17	31	27	28	25
HC95-3798	42	40	39	48	38	44	44
HC95-4337	25	23	16	30	26	24	24
HC96-182PR	40	39	38	44	37	42	40
K1410	34	33	33	39	32	33	34
K1454	37	37	35	44	33	39	33
K1457	36	35	32	40	33	32	36
K1459	36	35	34	39	31	36	38
LN95-5910	40	40	31	47	37	41	40
LN95-15230	39	40	36	46	36	38	41
Md95-5358	39	38	39	42	37	37	40
Md96-5722	39	38	37	45	37	36	39
SS95-3486	37	38	33	41	36	38	39
SS95-11009	33	32	31	39	33	37	34
U97-3635	34	36	36	48	36	40	40

UNIFORM TEST IV, 2000

PLANT HEIGHT (inches)

Strain	Manhattan KS	Ottawa KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	41	27	29	34	32	26	34
Macon (III)	39	26	28	34	31	29	33
Mustang (L) (SCN)	46	33	37	41	40	32	38
Strong (dt1)	33	21	22	26	15	24	25
C1981	43	34	40	41	45	33	36
HC94-2664	43	31	33	37	37	34	38
HC94-2727	41	32	37	40	39	36	36
HC95-933	33	22	25	22	25	22	27
HC95-3798	48	34	41	42	50	38	42
HC95-4337	30	19	22	25	25	21	28
HC96-182PR	41	34	38	41	43	37	40
K1410	43	28	33	34	41	27	32
K1454	40	33	34	39	44	34	33
K1457	41	30	35	38	42	32	34
K1459	40	33	34	36	44	31	33
LN95-5910	47	32	38	44	50	27	33
LN95-15230	41	33	39	40	48	29	40
Md95-5358	41	31	37	41	47	33	38
Md96-5722	47	32	36	42	46	33	35
SS95-3486	39	31	37	37	44	32	36
SS95-11009	43	29	30	33	38	24	30
U97-3635	43	31	35	38	38	31	37

UNIFORM TEST IV, 2000

SEED SIZE (g/100)

Strain	Mean 12 Tests	Middle-town DE	Belle-ville IL	Newton IL	Urbana IL	Ullin IL	Lafayette IN
HS93-4118 (IV)	14.3		12.8	13.6	13.9	13.6	14.4
Macon (III)	16.6		15.4	16.8	15.4	16.2	15.0
Mustang (L) (SCN)	13.6		10.3	12.6	14.9	11.5	12.1
Strong (dt1)	17.1		17.1	17.4	15.8	16.8	15.8
C1981	13.1		11.5	13.0	13.3	12.7	12.8
HC94-2664	14.2		11.9	13.5	13.2	13.6	13.9
HC94-2727	13.7		13.2	12.9	13.8	12.6	12.0
HC95-933	14.1		12.5	14.3	12.7	14.1	13.4
HC95-3798	14.3		11.1	13.0	14.5	13.4	14.5
HC95-4337	13.2		11.6	13.7	13.7	12.3	13.3
HC96-182PR	14.2		12.5	13.4	13.5	13.3	13.9
K1410	15.5		14.1	15.5	15.4	14.4	15.0
K1454	13.8		11.3	12.8	14.3	12.7	14.3
K1457	16.3		13.5	16.3	16.2	14.6	16.3
K1459	14.1		12.4	13.0	15.1	12.5	14.1
LN95-5910	13.8		9.8	13.7	14.5	13.1	13.2
LN95-15230	12.6		9.8	12.4	12.0	9.6	13.6
Md95-5358	16.8		15.9	17.0	15.8	15.9	16.7
Md96-5722	16.5		15.4	16.5	15.5	15.9	15.4
SS95-3486	13.5		9.3	13.0	13.9	12.6	13.5
SS95-11009	16.1		13.7	15.1	15.0	14.7	15.4
U97-3635	15.1		12.3	14.5	14.3	14.3	14.6

UNIFORM TEST IV, 2000

SEED SIZE (g/100)

Strain	Manhattan KS	Ottawa KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	17.3	11.2	14.4	16.6	14.0	13.7	15.0
Macon (III)	18.7	11.5	18.5	19.4	18.0	16.0	16.9
Mustang (L) (SCN)	16.0	10.9	15.2	15.9	15.0	11.0	14.1
Strong (dt1)	18.3	12.4	18.4	20.0	19.0	17.3	17.3
C1981	15.0	9.7	13.9	16.4	14.0	10.7	13.0
HC94-2664	15.5	10.6	15.6	16.5	16.0	13.0	14.4
HC94-2727	16.3	10.8	14.5	16.8	15.0	13.0	13.5
HC95-933	15.0	10.8	14.8	16.5	15.0	13.3	14.7
HC95-3798	16.4	11.5	15.9	17.3	14.0	12.3	14.7
HC95-4337	14.3	9.2	14.6	14.9	13.0	11.7	14.3
HC96-182PR	15.2	10.4	15.8	17.3	17.0	12.3	14.3
K1410	16.9	11.7	17.1	18.5	18.0	12.7	15.4
K1454	15.2	11.0	14.1	17.2	15.0	11.3	13.8
K1457	17.6	12.0	17.2	19.1	18.0	15.7	16.6
K1459	16.3	12.0	15.9	16.5	14.0	12.0	14.0
LN95-5910	15.4	10.7	13.9	15.7	15.0	13.3	13.4
LN95-15230	12.6	9.3	13.8	16.0	14.0	12.3	12.6
Md95-5358	19.2	12.5	17.5	19.7	18.0	15.3	17.5
Md96-5722	18.6	11.8	16.7	19.2	19.0	17.0	15.5
SS95-3486	14.3	10.8	15.2	15.9	14.0	11.7	13.9
SS95-11009	17.7	11.6	18.5	18.7	19.0	15.7	15.9
[illegible]97-3635	18.3	11.2	16.2	18.3	15.0	15.0	14.5

UNIFORM TEST IV, 2000

PROTEIN (%)

Strain	Mean 5 Tests	Newton IL	Urbana IL	Lafayette IN	Lexington KY	Mt. Orab OH
HS93-4118 (IV)	42.1	43.6	41.0	41.0	42.8	42.1
Macon (III)	42.6	44.3	42.7	41.6	41.5	42.6
Mustang (L) (SCN)	43.5	45.4	44.4	43.8	43.2	40.7
Strong (dt1)	43.0	43.6	42.3	42.8	43.8	42.5
C1981	44.9	46.5	44.4	44.4	44.0	44.9
HC94-2664	44.2	46.1	43.8	43.6	43.1	44.4
HC94-2727	42.7	44.7	41.2	41.4	44.1	42.1
HC95-933	43.1	43.3	40.3	41.9	46.7	43.1
HC95-3798	42.7	45.3	43.0	42.6	40.7	41.9
HC95-4337	41.2	43.2	39.6	40.6	42.8	39.8
HC96-182PR	44.6	46.5	44.6	44.9	41.4	45.4
K1410	43.1	44.8	42.8	42.9	42.5	42.6
K1454	42.6	43.8	41.7	42.5	42.7	42.2
K1457	44.2	46.1	44.4	43.2	43.1	43.9
K1459	43.6	44.9	42.7	44.7	42.3	43.6
LN95-5910	41.4	42.9	40.4	39.9	43.2	40.4
LN95-15230	43.8	44.8	43.8	43.9	42.4	43.8
Md95-5358	42.4	44.2	39.6	42.7	42.9	42.6
Md96-5722	42.4	44.9	40.6	43.1	40.0	43.1
SS95-3486	43.2	45.6	43.6	42.6	42.0	42.2
SS95-11009	41.7	46.1	42.7	42.7	40.3	37.0
U97-3635	41.8	42.2	42.5	39.6	44.3	40.2

UNIFORM TEST IV, 2000

OIL (%)

Strain	Mean 5 Tests	Newton IL	Urbana IL	Lafayette IN	Lexington KY	Mt. Orab OH
HS93-4118 (IV)	19.3	19.0	19.3	19.4	19.9	18.8
Macon (III)	19.9	19.8	19.8	20.5	19.4	19.9
Mustang (L) (SCN)	18.6	18.4	18.8	17.9	19.6	18.1
Strong (dt1)	20.1	20.3	20.6	20.0	20.0	19.8
C1981	18.8	19.1	19.3	18.9	19.3	17.7
HC94-2664	19.7	20.0	19.3	20.4	19.5	19.4
HC94-2727	19.7	19.6	20.6	19.9	18.3	20.1
HC95-933	19.1	19.1	19.7	19.7	17.8	18.9
HC95-3798	19.2	19.0	19.1	18.6	20.5	18.7
HC95-4337	20.1	19.5	20.4	20.7	19.7	20.2
HC96-182PR	19.3	19.2	19.1	19.2	20.7	18.5
K1410	20.0	19.8	20.3	19.9	19.8	20.2
K1454	19.8	19.3	20.4	20.1	19.9	19.0
K1457	19.1	19.1	19.0	19.5	19.5	18.3
K1459	19.3	19.7	19.8	19.3	19.9	17.7
LN95-5910	20.5	20.7	20.7	21.0	19.4	20.5
LN95-15230	17.9	17.7	17.6	17.7	19.7	16.8
Md95-5358	19.2	19.3	18.9	19.0	19.9	18.9
Md96-5722	19.8	19.5	20.1	19.3	20.8	19.3
SS95-3486	19.5	19.4	19.8	19.3	19.9	19.2
SS95-11009	19.8	19.5	20.5	20.4	19.8	18.9
U97-3635	20.0	20.9	19.1	20.8	19.1	19.9

Preliminary Test IVA, 2000

	Strain	Parentage	Generation Composited	Unique Traits
1.	HS93-4118 (IV)	IA2007 x Dairyland DSR 304	F5	Rps1-c
2.	Mustang (L) (SCN)	Fayette x Pyramid	F5	
3.	Macon (III)	Sherman x Resnik	F5	
4.	HC95-3553	Hobbit 87 x Edison	F5	
5.	HC95-3993	Hartwig x Resnik	F5	
6.	HC95-3995	Sharkey x Flyer	F5	
7.	HC96-2737	Resnik x CAB 47	F5	
8.	HC96-2744	Resnik x AMB 60	F5	
9.	HC96-2954	Resnik x AMB 60	F5	
10.	HC97-166PR	HC89-2237(4) x Flyer	BC3F3	Rps1k
11.	HC97-168PR	HC89-2237(4) x Flyer	BC3F3	Rps1k
12.	HC97-232PR	Stressland(4) x Thorne	BC3F3	Rps1k
13.	HC97-235PR	Stressland(4) x Thorne	BC3F3	Rps1k
14.	HC97-240PR	Stressland(4) x Amcor 89	BC3F3	Rps1k
15.	HC97-438	CAB 47 x HC86-3403	F5	
16.	HC97-446	CAB 187 x Resnik	F5	
17.	HC97-465	CAB 47 x HC86-3403	F5	
18.	HC97-1557	CAB 47 x HC86-3403	F5	
19.	HC97-3674	HC84-4850 x CAB 204	F5	
20.	K1490	Pioneer 9393 x Stressland	F5	
21.	K1491	Pioneer 9393 x Stressland	F5	
22.	K1492	Pioneer 9451 x Probst	F5	
23.	K1493	Pioneer 9393 x Stressland	F5	
24.	K1494	Macon x Stressland	F5	
25.	K1495	N90-516 x C1834	F5	
26.	K1496	Yale x C1834	F5	
27.	K1497	Stressland x A92-726004	F5	
28.	LS97-0219	LS88-1517 x Hutcheson	F6	SCN
29.	LS97-1218	Flyer x Asgrow A4138	F6	SCN
30.	LS97-3221	Pioneer 9521 x LS92-1800	F6	SCN
31.	LS97-3406	Carter x Asgrow A3242	F6	SCN
32.	LS97-3617	Flyer x Asgrow A4138	F6	SCN
33.	LS97-3718	Flyer x Asgrow A4138	F6	SCN
34.	LS97-3817	Flyer x Asgrow A4138	F6	
35.	Md97-5902	TN90-3 x Stressland	F5	
36.	Md97-6521	SL89-314 x Corsica	F5	
37.	Md97-6525	SL89-314 x Corsica	F5	
38.	Md97-6546	SL89-314 x Corsica	F5	

PRELIMINARY TEST IVA, 2000

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan	PR Lafayette Race 7	PS Lafayette a %	P&SB Lafayette n %
HS93-4118 (IV)	WGBDYBIIep	1.0	R	34	6
Mustang (L) (SCN)	WGTSYBfIEp	1.0	S	42	10
Macon (III)	WTBSYBIIEp	2.0	S	30	4
HC95-3553	WTBDYBIIep	2.0	R	14	2
HC95-3993	WTB+TSYBIIH	1.0	R	24	8
HC95-3995	WTB+TSYBIIEp	1.0	R	18	0
HC96-2737	P+WTB+TSYBIIEp	1.0	R	12	4
HC96-2744	PTBSYBIIEp	1.0	S	12	4
HC96-2954	PTBDYBIIEp	1.0	R	10	3
HC97-166PR	PTBDYBIIep	2.0	R	12	0
HC97-168PR	PTBDYBIIep	1.0	R	20	0
HC97-232PR	PTBSYBIIep	1.0	S	14	2
HC97-235PR	PTBSYBIIep	1.0	S	14	0
HC97-240PR	PTBSYBIIEp	2.0	S	16	0
HC97-438	WTBSYGrIEp	1.0	S	24	2
HC97-446	WTBSYBIIEp	2.0	R	8	0
HC97-465	WTBSYGrIEp	2.0	S	20	2
HC97-1557	PTBDYGrIEp	2.0	S	26	6
HC97-3674	WTBDYBIIep	2.0	R	36	2
K1490	PTBDYBIIEp	1.0	S	34	2
K1491	PTBDYBIIep	2.0	S	26	0
K1492	PTBDYBIIH	1.0	S	24	4
K1493	PTBDYBIIEp	1.0	S	22	0
K1494	PTBDYBIIEp	2.0	S	24	0
K1495	PTBDYBIIH	2.0	S	36	0
K1496	PGTDYIbIep	1.0	R	26	6
K1497	PTBDYBIIEp	1.0	S	8	0
LS97-0219	PGTSYBfIep	2.0	S	50	6
LS97-1218	WTBDYBIIEp	1.0	S	2	6
LS97-3221	PTBSYBIIep	1.0	R	34	2
LS97-3406	PGTSYBIIEp	1.0	R	28	6
LS97-3617	WTBDYBIIEp	2.0	R	40	6
LS97-3718	WTBDYBIIEp	1.0	R	28	6
LS97-3817	WTBDYBIIEp	1.0	R	26	0
Md97-5902	PGBSYBfIEp	2.0	S	8	0
Md97-6521	PTBDYBIIEp	1.0	R	18	4
Md97-6525	PTBDYBIIEp	2.0	R	24	2
Md97-6546	PTBDYBIIEp	1.0	R	44	2

PRELIMINARY TEST IVA, 2000

REGIONAL SUMMARY

No. of Tests Strain	Yield 8 bu/a	Rank 8 No.	Maturity 9 Date	Lodging 9 Score	Plant Height 9 In.	Seed Size 9 g/100	Composition Protein 5 %	 Oil 5 %
HS93-4118 (IV)	61.3	6	9/23	1.8	34	15.3	41.2	19.6
Mustang (L) (SCN)	55.3	31	4.9	1.9	40	13.9	43.7	18.6
Macon (III)	61.6	5	-0.7	1.5	34	17.4	42.9	19.5
HC95-3553	56.4	27	1.4	1.7	36	15.4	42.1	20.3
HC95-3993	56.3	28	-0.4	2.2	39	15.9	44.2	19.2
HC95-3995	53.3	34	-1.2	2.2	38	14.9	44.9	19.6
HC96-2737	56.7	25	-4.5	1.7	35	14.7	43.1	20.0
HC96-2744	53.5	33	0.2	2.5	42	15.7	43.9	19.3
HC96-2954	52.5	35	-0.9	3.0	42	16.2	43.0	20.0
HC97-166PR	61.7	4	-1.9	1.4	35	14.3	44.7	18.8
HC97-168PR	59.4	14	0.0	1.5	36	14.1	44.6	18.5
HC97-232PR	58.3	19	6.2	2.5	42	14.1	44.9	19.3
HC97-235PR	59.7	11	4.4	2.0	39	13.5	44.5	19.1
HC97-240PR	57.6	22	6.9	2.3	42	14.3	44.7	19.1
HC97-438	51.4	37	0.7	2.1	42	15.3	42.9	19.6
HC97-446	55.6	29	0.8	2.0	42	16.6	44.0	20.0
HC97-465	53.9	32	0.8	2.2	41	14.4	43.0	19.5
HC97-1557	57.7	20	0.7	2.2	45	14.3	42.2	20.1
HC97-3674	59.1	16	3.3	2.8	43	16.5	43.7	19.9
K1490	60.3	9	4.2	2.1	39	13.5	43.8	19.6
K1491	61.0	7	5.5	1.8	38	15.9	45.2	18.9
K1492	57.6	22	5.9	2.7	43	15.1	42.9	19.9
K1493	62.3	2	3.2	2.0	39	13.7	44.1	19.7
K1494	59.5	13	3.3	2.2	41	15.6	43.3	19.7
K1495	60.3	8	-0.3	1.6	37	15.5	43.4	19.4
K1496	58.5	18	1.4	1.6	36	13.6	43.7	19.7
K1497	62.4	1	4.3	1.8	37	14.2	44.4	19.8
LS97-0219	51.2	38	7.2	2.6	42	17.6	43.8	19.3
LS97-1218	61.9	3	2.9	2.5	39	14.0	42.4	20.0
LS97-3221	55.5	30	2.6	2.3	42	14.1	43.0	19.7
LS97-3406	52.3	36	1.4	2.4	42	15.3	43.6	19.4
LS97-3617	57.0	24	5.5	1.8	37	14.5	43.1	19.2
LS97-3718	57.7	20	5.3	2.2	40	15.2	42.6	20.0
LS97-3817	56.7	25	5.7	1.9	37	15.8	43.2	19.3
Md97-5902	60.2	10	5.4	1.9	40	13.4	43.7	19.2
Md97-6521	59.7	11	-0.1	1.6	37	13.8	42.4	19.6
Md97-6525	59.2	15	0.7	1.5	39	15.9	44.1	18.9
Md97-6546	58.7	17	0.4	1.9	36	15.0	43.8	19.6

133.9 Days After Planting

PRELIMINARY TEST IVA, 2000

YIELD (bu/a)

Strain	Mean 8 Tests	Belleville* IL	Urbana IL	Lafayette IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	61.3	55.5	46.4	49.8	52.2	72.7
Mustang (L) (SCN)	55.3	44.5	45.4	47.2	44.2	76.6
Macon (III)	61.6	54.4	58.2	51.0	60.1	73.9
HC95-3553	56.4	40.8	51.7	48.9	53.4	72.3
HC95-3993	56.3	52.0	42.3	44.2	54.7	74.0
HC95-3995	53.3	36.9	40.0	39.3	51.4	72.5
HC96-2737	56.7	36.3	43.9	42.1	50.7	77.8
HC96-2744	53.5	53.4	35.8	38.5	51.4	72.5
HC96-2954	52.5	47.3	39.6	39.5	49.9	69.6
HC97-166PR	61.7	41.3	44.8	46.2	56.1	83.6
HC97-168PR	59.4	59.9	42.9	54.3	58.9	83.7
HC97-232PR	58.3	56.3	44.6	49.1	55.8	78.0
HC97-235PR	59.7	49.0	49.0	57.2	61.9	74.1
HC97-240PR	57.6	42.1	46.6	46.8	54.1	79.4
HC97-438	51.4	45.8	28.8	43.2	57.3	62.5
HC97-446	55.6	41.4	42.2	48.3	53.1	69.3
HC97-465	53.9	38.4	37.5	42.5	55.7	73.0
HC97-1557	57.7	39.0	42.1	48.0	51.0	82.1
HC97-3674	59.1	46.5	50.5	46.8	52.8	84.3
K1490	60.3	70.8	47.0	51.7	57.1	74.9
K1491	61.0	47.7	50.3	46.8	54.2	83.3
K1492	57.6	48.9	46.0	43.9	55.3	85.0
K1493	62.3	46.8	53.5	59.1	62.4	75.7
K1494	59.5	49.4	45.1	50.3	60.4	76.9
K1495	60.3	46.0	44.1	51.6	61.7	79.5
K1496	58.5	47.0	41.5	51.2	56.1	70.3
K1497	62.4	56.1	45.3	57.4	53.6	76.6
LS97-0219	51.2	35.8	36.6	46.7	50.2	78.6
LS97-1218	61.9	48.2	46.7	52.7	59.9	73.4
LS97-3221	55.5	43.3	42.2	47.5	49.4	72.4
LS97-3406	52.3	40.0	37.5	49.7	44.1	77.9
LS97-3617	57.0	56.7	39.7	52.8	54.8	73.6
LS97-3718	57.7	57.9	45.5	51.9	50.0	77.9
LS97-3817	56.7	56.6	43.7	47.9	46.9	79.5
Md97-5902	60.2	55.0	44.3	49.7	53.4	87.3
Md97-6521	59.7	45.9	47.3	49.9	58.3	74.3
Md97-6525	59.2	41.5	39.7	52.1	59.9	75.4
Md97-6546	58.7	47.9	45.4	52.5	59.2	71.6
C.V. (%)		19.0	8.5	7.5	5.3	6.1
L.S.D. (5%)		18.5	7.6	7.4	4.9	7.8
Row Sp. (In.)		30	30	24	30	15
Rows/Plot		4	4	4	4	6
Reps		2	2	2	2	2

* Data not included in the mean.

PRELIMINARY TEST IVA, 2000

YIELD (bu/a)

Strain	Queenstown MD	Midway MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	66.3	72.0	60.0	71.3
Mustang (L) (SCN)	46.0	73.7	48.4	61.0
Macon (III)	62.3	70.5	57.3	59.3
HC95-3553	62.1	57.5	60.1	45.4
HC95-3993	58.2	75.2	54.1	47.8
HC95-3995	55.7	64.6	53.1	50.2
HC96-2737	56.3	67.3	60.3	55.1
HC96-2744	54.4	58.3	63.5	53.7
HC96-2954	49.0	59.8	57.9	55.1
HC97-166PR	63.9	73.4	60.0	65.3
HC97-168PR	64.2	73.7	35.7	62.1
HC97-232PR	57.4	76.6	46.7	58.4
HC97-235PR	61.5	75.3	38.1	60.8
HC97-240PR	60.1	72.5	48.1	53.0
HC97-438	50.7	54.3	54.0	60.4
HC97-446	58.5	66.1	49.1	57.8
HC97-465	55.0	52.9	57.8	56.8
HC97-1557	54.1	63.5	61.1	59.4
HC97-3674	62.1	55.5	59.9	60.9
K1490	61.2	78.8	56.9	54.7
K1491	60.4	76.2	57.3	59.7
K1492	55.3	63.8	52.0	59.8
K1493	59.0	77.0	54.9	57.2
K1494	62.1	65.5	58.7	57.1
K1495	61.0	70.3	55.2	58.9
K1496	59.6	75.2	53.3	60.7
K1497	61.7	79.0	59.4	66.5
LS97-0219	59.9	48.0	42.4	46.9
LS97-1218	61.0	75.0	59.8	66.6
LS97-3221	57.2	75.6	47.3	52.5
LS97-3406	42.2	70.8	43.5	52.9
LS97-3617	57.9	79.6	49.6	47.6
LS97-3718	55.2	72.2	48.5	60.6
LS97-3817	55.2	78.0	51.6	50.8
Md97-5902	55.2	83.7	54.4	53.5
Md97-6521	61.6	65.6	58.5	62.6
Md97-6525	58.8	67.1	57.4	62.9
Md97-6546	54.8	71.2	53.7	61.1
C.V. (%)	5.3	8.4	12.7	8.5
L.S.D. (5%)	6.2	9.8	13.7	9.9
Row Sp. (In.)	24	30	15	7.5
Rows/Plot	4	4	6	8
Reps	2	2	2	2

PRELIMINARY TEST IVA, 2000

YIELD RANK

Strain	Yield Rank	Belleville IL	Urbana IL	Lafayette IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	6	8	11	16	27	29
Mustang (L) (SCN)	31	26	14	25	37	17
Macon (III)	5	10	1	13	5	25
HC95-3553	27	32	3	20	23	33
HC95-3993	28	12	25	31	19	24
HC95-3995	34	36	30	37	28	30
HC96-2737	25	37	22	35	31	15
HC96-2744	33	11	37	38	28	30
HC96-2954	35	19	33	36	34	36
HC97-166PR	4	31	18	30	13	5
HC97-168PR	14	2	24	4	9	4
HC97-232PR	19	6	19	19	15	12
HC97-235PR	11	14	6	3	2	23
HC97-240PR	22	28	10	26	21	10
HC97-438	37	25	38	33	11	38
HC97-446	29	30	26	21	25	37
HC97-465	32	35	34	34	16	28
HC97-1557	20	34	28	22	30	7
HC97-3674	16	22	4	26	26	3
K1490	9	1	8	10	12	21
K1491	7	18	5	26	20	6
K1492	22	15	12	32	17	2
K1493	2	21	2	1	1	19
K1494	13	13	17	14	4	16
K1495	8	23	21	11	3	8
K1496	18	20	29	12	13	35
K1497	1	7	16	2	22	17
LS97-0219	38	38	36	29	32	11
LS97-1218	3	16	9	6	6	27
LS97-3221	30	27	26	24	35	32
LS97-3406	36	33	34	17	38	13
LS97-3617	24	4	31	5	18	26
LS97-3718	20	3	13	9	33	14
LS97-3817	25	5	23	23	36	8
Md97-5902	10	9	20	18	23	1
Md97-6521	11	24	7	15	10	22
Md97-6525	15	29	31	8	7	20
Md97-6546	17	17	14	7	8	34

PRELIMINARY TEST IVA, 2000

YIELD RANK

Strain	Queenstown MD	Midway MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	1	19	5	1
Mustang (L) (SCN)	37	14	31	9
Macon (III)	4	22	15	18
HC95-3553	5	34	4	38
HC95-3993	21	11	21	35
HC95-3995	26	29	25	34
HC96-2737	25	24	3	26
HC96-2744	33	33	1	28
HC96-2954	36	32	12	25
HC97-166PR	3	16	5	4
HC97-168PR	2	14	38	7
HC97-232PR	23	7	34	20
HC97-235PR	10	10	37	11
HC97-240PR	15	17	32	30
HC97-438	35	36	22	14
HC97-446	20	26	29	21
HC97-465	31	37	13	24
HC97-1557	34	31	2	17
HC97-3674	5	35	7	10
K1490	11	4	17	27
K1491	14	8	15	16
K1492	27	30	26	15
K1493	18	6	19	22
K1494	5	28	10	23
K1495	12	23	18	19
K1496	17	11	24	12
K1497	8	3	9	3
LS97-0219	16	38	36	37
LS97-1218	12	13	8	2
LS97-3221	24	9	33	32
LS97-3406	38	21	35	31
LS97-3617	22	2	28	36
LS97-3718	28	18	30	13
LS97-3817	28	5	27	33
Md97-5902	28	1	20	29
Md97-6521	9	27	11	6
Md97-6525	19	25	14	5
Md97-6546	32	20	23	8

PRELIMINARY TEST IVA, 2000

MATURITY (date)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Lafayette IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	09/23	09/16	09/20	09/23	09/27	09/18
Mustang (L) (SCN)	4.9	3	8	9	2	5
Macon (III)	-0.7	1	1	-3	1	-1
HC95-3553	1.4	1	0	3	1	0
HC95-3993	-0.4	-3	-2	1	-1	-1
HC95-3995	-1.2	-3	-3	-2	-2	-1
HC96-2737	-4.5	-5	-4	-6	-6	-7
HC96-2744	0.2	-2	-1	1	2	0
HC96-2954	-0.9	-2	-3	0	-4	1
HC97-166PR	-1.9	-4	-2	-1	-4	0
HC97-168PR	0.0	2	-1	1	2	-1
HC97-232PR	6.2	7	2	10	1	5
HC97-235PR	4.4	5	3	8	3	2
HC97-240PR	6.9	6	6	11	3	7
HC97-438	0.7	0	1	2	1	0
HC97-446	0.8	1	4	1	1	0
HC97-465	0.8	-2	0	2	2	0
HC97-1557	0.7	-1	0	2	1	0
HC97-3674	3.3	3	1	6	3	2
K1490	4.2	8	4	6	1	2
K1491	5.5	6	2	9	1	4
K1492	5.9	6	4	8	2	5
K1493	3.2	0	1	7	1	3
K1494	3.3	1	2	5	1	3
K1495	-0.3	1	-1	0	-1	-1
K1496	1.4	1	1	2	1	2
K1497	4.3	3	1	8	1	4
LS97-0219	7.2	8	8	9	3	13
LS97-1218	2.9	3	5	4	2	2
LS97-3221	2.6	3	0	4	1	4
LS97-3406	1.4	-3	0	2	1	2
LS97-3617	5.5	4	8	10	3	4
LS97-3718	5.3	4	5	10	2	5
LS97-3817	5.7	3	7	10	2	4
Md97-5902	5.4	7	6	7	3	7
Md97-6521	-0.1	-2	-3	1	2	-1
Md97-6525	0.7	0	-1	2	1	0
Md97-6546	0.4	-1	-1	4	2	0
Date Planted	05/12	05/05	04/28	05/05	05/23	05/12
Days to Mature	134	134	145	141	127	129

PRELIMINARY TEST IVA, 2000

MATURITY (date)

Strain	Queenstown MD	Midway MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	10/04	09/26	09/20	09/23
Mustang (L) (SCN)	1	5	3	9
Macon (III)	0	0	-1	-4
HC95-3553	1	1	6	0
HC95-3993	0	0	1	0
HC95-3995	0	0	0	-1
HC96-2737	-4	-3	0	-6
HC96-2744	1	-3	-2	5
HC96-2954	1	-3	1	0
HC97-166PR	-2	-3	-1	-1
HC97-168PR	0	1	-1	-2
HC97-232PR	3	6	11	11
HC97-235PR	2	3	2	12
HC97-240PR	4	7	9	10
HC97-438	-1	-3	2	4
HC97-446	2	-3	2	0
HC97-465	1	-2	2	5
HC97-1557	1	-3	0	6
HC97-3674	4	2	4	5
K1490	3	4	5	6
K1491	4	5	10	9
K1492	6	6	7	9
K1493	2	1	4	10
K1494	3	2	8	5
K1495	0	0	1	-1
K1496	0	0	5	1
K1497	3	3	6	10
LS97-0219	4	4	5	11
LS97-1218	1	0	2	8
LS97-3221	2	3	5	1
LS97-3406	1	1	1	8
LS97-3617	2	3	8	8
LS97-3718	4	3	4	11
LS97-3817	3	5	9	9
Md97-5902	2	6	7	5
Md97-6521	0	-2	0	4
Md97-6525	0	-2	0	7
Md97-6546	0	-2	0	2
Date Planted	06/08	05/19	05/04	05/04
Days to Mature	118	130	139	142

PRELIMINARY TEST IVA, 2000

LODGING (score)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Lafayette IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	1.8	1.3	1.0	1.3	1.0	1.5
Mustang (L) (SCN)	1.9	1.8	1.5	1.5	1.5	1.8
Macon (III)	1.5	1.5	1.0	1.0	1.5	1.0
HC95-3553	1.7	1.5	1.3	1.0	1.0	1.3
HC95-3993	2.2	2.0	1.5	2.5	2.0	1.8
HC95-3995	2.2	2.0	1.5	1.5	1.5	2.8
HC96-2737	1.7	1.8	1.3	1.3	1.5	2.0
HC96-2744	2.5	3.5	1.5	1.8	2.5	2.5
HC96-2954	3.0	3.0	1.5	3.5	1.5	3.0
HC97-166PR	1.4	1.3	1.3	1.0	1.0	1.5
HC97-168PR	1.5	1.3	1.3	1.0	1.0	1.3
HC97-232PR	2.5	3.3	1.8	1.3	2.0	2.3
HC97-235PR	2.0	1.8	1.5	1.3	1.5	1.5
HC97-240PR	2.3	2.0	1.5	1.3	2.0	2.3
HC97-438	2.1	2.5	1.0	1.5	2.0	2.3
HC97-446	2.0	1.8	1.0	1.3	1.5	1.8
HC97-465	2.2	1.5	1.0	1.8	2.0	2.0
HC97-1557	2.2	2.0	1.5	1.8	2.5	2.0
HC97-3674	2.8	3.5	1.5	2.3	3.5	3.0
K1490	2.1	2.8	1.3	1.3	2.0	1.8
K1491	1.8	2.5	1.3	1.3	1.0	2.0
K1492	2.7	3.3	1.5	2.0	1.5	2.8
K1493	2.0	1.5	1.5	1.3	1.0	1.8
K1494	2.2	1.8	1.0	1.5	2.0	2.3
K1495	1.6	2.0	1.0	1.3	1.5	1.8
K1496	1.6	2.0	1.0	1.5	1.0	1.8
K1497	1.8	2.8	1.5	1.3	1.0	1.8
LS97-0219	2.6	2.0	1.8	2.3	2.0	3.5
LS97-1218	2.5	2.8	1.8	1.8	2.0	2.8
LS97-3221	2.3	2.0	1.5	1.5	3.0	2.8
LS97-3406	2.4	3.3	1.3	1.5	2.0	2.3
LS97-3617	1.8	1.5	1.3	1.3	1.0	1.8
LS97-3718	2.2	2.3	1.3	1.8	2.0	2.8
LS97-3817	1.9	1.8	1.3	1.8	1.0	1.8
Md97-5902	1.9	3.0	1.5	1.0	2.0	2.3
Md97-6521	1.6	1.3	1.3	1.5	1.5	1.5
Md97-6525	1.5	1.3	1.0	1.0	2.0	1.3
Md97-6546	1.9	1.5	1.0	1.8	2.0	2.8

PRELIMINARY TEST IVA, 2000

LODGING (score)

Strain	Queenstown MD	Midway MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	2.5	4.0	1.7	1.5
Mustang (L) (SCN)	2.5	3.0	1.9	1.3
Macon (III)	1.5	3.0	1.5	1.3
HC95-3553	1.8	3.0	3.5	1.0
HC95-3993	2.8	2.0	2.4	2.5
HC95-3995	2.8	3.0	2.3	2.8
HC96-2737	2.0	2.0	1.8	1.5
HC96-2744	3.5	3.0	2.0	2.3
HC96-2954	3.8	4.0	3.6	3.0
HC97-166PR	2.0	2.0	1.5	1.5
HC97-168PR	2.3	2.0	1.8	1.8
HC97-232PR	3.5	2.0	4.0	2.0
HC97-235PR	3.5	4.0	1.5	1.8
HC97-240PR	3.3	3.0	3.1	1.8
HC97-438	2.5	2.0	3.2	2.3
HC97-446	3.5	2.0	3.2	1.5
HC97-465	3.5	3.0	3.2	1.8
HC97-1557	3.5	2.0	2.3	2.0
HC97-3674	3.5	2.0	3.5	2.5
K1490	3.0	3.0	2.2	1.3
K1491	3.0	2.0	2.4	1.0
K1492	4.0	4.0	2.5	2.5
K1493	3.0	3.0	2.8	2.0
K1494	3.0	4.0	2.5	2.0
K1495	1.8	1.0	2.5	1.3
K1496	2.5	1.0	2.4	1.5
K1497	3.0	1.0	1.4	2.0
LS97-0219	3.5	3.0	3.3	2.3
LS97-1218	3.0	4.0	2.3	2.0
LS97-3221	3.5	2.0	1.8	2.5
LS97-3406	3.3	3.0	2.2	2.5
LS97-3617	2.8	2.0	2.3	1.8
LS97-3718	3.3	2.0	2.8	2.0
LS97-3817	2.5	3.0	2.8	1.5
Md97-5902	2.3	2.0	1.7	1.3
Md97-6521	2.3	1.0	2.1	1.8
Md97-6525	2.3	1.0	1.8	1.5
Md97-6546	2.0	2.0	2.6	1.5

PRELIMINARY TEST IVA, 2000

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Lafayette IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	34	30	29	37	36	31
Mustang (L) (SCN)	40	36	35	43	44	39
Macon (III)	34	31	33	36	39	36
HC95-3553	36	35	35	37	35	40
HC95-3993	39	32	39	42	42	37
HC95-3995	38	34	36	40	40	41
HC96-2737	35	28	35	36	37	35
HC96-2744	42	39	41	43	48	39
HC96-2954	42	37	39	45	44	44
HC97-166PR	35	34	34	35	39	34
HC97-168PR	36	34	37	36	40	35
HC97-232PR	42	40	41	41	44	40
HC97-235PR	39	32	39	42	45	39
HC97-240PR	42	40	36	43	46	42
HC97-438	42	39	35	45	44	42
HC97-446	42	41	41	44	44	41
HC97-465	41	39	35	42	48	40
HC97-1557	45	41	37	50	49	44
HC97-3674	43	40	40	45	49	42
K1490	39	37	35	40	43	38
K1491	38	36	35	40	42	36
K1492	43	40	39	45	44	41
K1493	39	33	38	41	43	38
K1494	41	33	37	44	44	41
K1495	37	33	36	38	43	35
K1496	36	32	34	38	41	35
K1497	37	36	33	41	39	37
LS97-0219	42	42	37	47	49	42
LS97-1218	39	34	37	40	45	38
LS97-3221	42	36	39	46	48	47
LS97-3406	42	40	39	44	46	40
LS97-3617	37	31	32	39	46	36
LS97-3718	40	39	37	42	44	42
LS97-3817	37	35	38	39	39	39
Md97-5902	40	39	33	43	43	40
Md97-6521	37	36	35	38	41	34
Md97-6525	39	31	37	42	44	38
Md97-6546	36	29	33	42	40	35

PRELIMINARY TEST IVA, 2000

PLANT HEIGHT (inches)

Strain	Queenstown MD	Midway MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	36	41	30	37
Mustang (L) (SCN)	40	50	33	38
Macon (III)	36	41	26	32
HC95-3553	35	46	30	35
HC95-3993	37	50	34	35
HC95-3995	37	49	30	38
HC96-2737	34	45	32	33
HC96-2744	42	48	34	44
HC96-2954	42	48	37	40
HC97-166PR	36	43	30	35
HC97-168PR	33	42	30	36
HC97-232PR	40	49	42	43
HC97-235PR	40	49	30	35
HC97-240PR	42	50	41	42
HC97-438	39	50	41	41
HC97-446	42	50	41	39
HC97-465	41	50	34	42
HC97-1557	45	60	35	44
HC97-3674	40	48	36	43
K1490	42	48	34	38
K1491	36	46	33	35
K1492	47	50	39	43
K1493	39	49	34	36
K1494	43	50	37	38
K1495	35	44	34	35
K1496	36	43	32	31
K1497	38	42	30	35
LS97-0219	45	43	32	39
LS97-1218	38	48	30	40
LS97-3221	46	50	28	39
LS97-3406	43	49	33	42
LS97-3617	37	46	33	33
LS97-3718	44	48	32	38
LS97-3817	37	42	28	32
Md97-5902	42	50	30	39
Md97-6521	40	44	30	36
Md97-6525	38	47	34	40
Md97-6546	36	41	33	33

PRELIMINARY TEST IVA, 2000

SEED SIZE (g/100)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Lafayette IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	15.3	13.8	13.6	15.2	15.5	15.5
Mustang (L) (SCN)	13.9	11.0	13.0	13.1	16.4	14.8
Macon (III)	17.4	14.5	16.1	17.2	17.6	19.1
HC95-3553	15.4	12.9	13.7	15.1	14.9	16.3
HC95-3993	15.9	12.9	13.6	14.6	16.8	15.6
HC95-3995	14.9	12.7	12.7	14.0	14.9	14.9
HC96-2737	14.7	11.3	13.7	14.2	14.3	16.1
HC96-2744	15.7	13.2	15.0	14.8	17.4	15.9
HC96-2954	16.2	13.3	15.9	15.7	17.6	16.5
HC97-166PR	14.3	11.9	13.0	13.2	14.5	15.3
HC97-168PR	14.1	11.9	13.2	12.8	16.2	14.7
HC97-232PR	14.1	12.4	12.7	13.7	15.0	15.3
HC97-235PR	13.5	11.7	13.2	13.4	14.4	13.6
HC97-240PR	14.3	12.5	13.7	13.4	16.0	14.3
HC97-438	15.3	13.3	15.8	15.6	17.8	14.5
HC97-446	16.6	13.9	16.4	16.7	16.0	17.1
HC97-465	14.4	11.4	13.7	13.9	16.9	14.6
HC97-1557	14.3	12.0	13.2	12.9	15.1	14.7
HC97-3674	16.5	13.1	15.4	15.6	17.6	18.2
K1490	13.5	11.5	12.2	12.9	15.6	13.6
K1491	15.9	13.3	13.7	15.2	16.3	17.0
K1492	15.1	12.5	14.4	15.5	15.3	16.7
K1493	13.7	10.0	13.1	13.5	15.4	13.9
K1494	15.6	12.0	15.0	17.2	17.5	15.2
K1495	15.5	13.1	14.1	14.2	17.0	16.4
K1496	13.6	10.6	13.5	13.0	15.2	13.6
K1497	14.2	11.5	12.8	14.2	15.7	14.7
LS97-0219	17.6	15.4	16.2	17.2	18.4	19.0
LS97-1218	14.0	11.5	13.3	13.8	15.3	13.9
LS97-3221	14.1	11.9	12.6	12.8	15.1	15.1
LS97-3406	15.3	10.5	15.9	15.7	16.4	16.4
LS97-3617	14.5	12.6	13.8	14.2	16.7	14.7
LS97-3718	15.2	13.2	14.2	14.7	15.0	16.4
LS97-3817	15.8	12.3	16.0	15.0	16.2	16.9
Md97-5902	13.4	11.8	13.5	12.1	14.6	14.3
Md97-6521	13.8	13.0	12.6	13.7	15.9	13.8
Md97-6525	15.9	13.4	14.5	15.7	18.6	15.4
Md97-6546	15.0	12.1	13.4	15.3	16.8	15.3

PRELIMINARY TEST IVA, 2000

SEED SIZE (g/100)

Strain	Queenstown MD	Midway MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	15.8	18.0	15.6	14.6
Mustang (L) (SCN)	14.6	16.0	12.0	14.2
Macon (III)	18.3	19.0	17.2	17.2
HC95-3553	16.8	19.0	15.8	13.8
HC95-3993	17.0	19.0	16.8	16.4
HC95-3995	16.7	17.0	15.7	15.2
HC96-2737	15.2	16.0	16.6	14.6
HC96-2744	17.3	16.0	15.6	16.4
HC96-2954	17.4	17.0	16.9	15.4
HC97-166PR	15.4	16.0	14.5	14.7
HC97-168PR	15.5	15.0	13.4	13.9
HC97-232PR	15.7	15.0	13.5	14.0
HC97-235PR	15.3	15.0	11.4	13.2
HC97-240PR	15.9	16.0	12.5	14.1
HC97-438	14.4	14.0	16.2	16.5
HC97-446	17.5	19.0	16.4	16.6
HC97-465	14.1	15.0	15.4	14.6
HC97-1557	15.5	16.0	14.7	14.7
HC97-3674	17.8	19.0	16.4	15.4
K1490	15.1	16.0	12.4	12.6
K1491	18.5	18.0	16.4	14.9
K1492	16.0	16.0	15.0	14.9
K1493	14.3	16.0	13.0	13.8
K1494	17.3	17.0	14.7	14.9
K1495	15.9	18.0	16.2	14.6
K1496	15.6	15.0	12.9	12.9
K1497	16.3	15.0	12.4	15.0
LS97-0219	19.5	20.0	15.9	16.5
LS97-1218	15.6	15.0	13.6	14.4
LS97-3221	16.0	15.0	13.9	14.2
LS97-3406	15.0	17.0	15.0	15.5
LS97-3617	15.8	16.0	13.6	13.5
LS97-3718	16.7	16.0	14.1	16.3
LS97-3817	17.5	18.0	15.6	14.7
Md97-5902	13.6	16.0	12.2	12.6
Md97-6521	14.2	14.0	13.6	13.1
Md97-6525	16.0	18.0	15.4	16.1
Md97-6546	15.1	17.0	15.3	15.0

PRELIMINARY TEST IVA, 2000

PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Lexington KY	Midway MO	Mt. Orab OH
HS93-4118 (IV)	41.2	40.4	42.1	39.6	41.0	42.7
Mustang (L) (SCN)	43.7	45.0	44.3	41.6	44.1	43.4
Macon (III)	42.9	41.5	43.2	42.6	43.4	43.7
HC95-3553	42.1	41.2	42.6	40.1	43.4	43.0
HC95-3993	44.2	43.3	44.7	42.9	45.5	44.5
HC95-3995	44.9	44.0	44.7	42.4	44.5	48.8
HC96-2737	43.1	42.5	43.1	42.0	43.6	44.3
HC96-2744	43.9	44.2	45.2	41.4	44.5	44.4
HC96-2954	43.0	42.6	43.3	42.1	43.4	43.7
HC97-166PR	44.7	44.3	44.0	44.0	45.7	45.6
HC97-168PR	44.6	45.0	44.3	43.4	46.4	43.9
HC97-232PR	44.9	45.5	45.2	42.9	44.3	46.7
HC97-235PR	44.5	44.7	43.8	43.3	43.8	47.0
HC97-240PR	44.7	45.9	42.4	42.6	47.9	44.7
HC97-438	42.9	43.5	42.7	41.6	43.4	43.1
HC97-446	44.0	43.9	43.7	43.2	45.4	43.7
HC97-465	43.0	42.8	42.9	41.8	43.0	44.4
HC97-1557	42.2	42.9	42.1	40.6	43.6	41.8
HC97-3674	43.7	43.1	43.3	42.8	44.7	44.4
K1490	43.8	44.0	41.8	42.7	45.7	44.9
K1491	45.2	44.8	44.0	44.5	45.2	47.5
K1492	42.9	42.6	42.5	42.6	43.6	43.0
K1493	44.1	44.9	43.0	42.8	43.9	45.8
K1494	43.3	45.3	42.9	41.0	43.8	43.4
K1495	43.4	43.0	43.0	42.3	44.6	43.9
K1496	43.7	44.8	43.0	42.2	44.4	44.2
K1497	44.4	44.8	45.1	42.5	45.5	43.9
LS97-0219	43.8	43.6	43.8	43.0	44.9	44.0
LS97-1218	42.4	43.4	42.3	40.9	42.7	42.6
LS97-3221	43.0	44.8	42.3	41.4	43.3	43.1
LS97-3406	43.6	42.9	43.7	42.3	44.8	44.1
LS97-3617	43.1	43.4	43.4	41.3	43.7	43.6
LS97-3718	42.6	43.5	42.7	41.6	43.4	41.7
LS97-3817	43.2	43.7	43.9	41.8	44.0	42.7
Md97-5902	43.7	44.2	44.1	41.6	45.0	43.8
Md97-6521	42.4	42.5	42.6	41.9	43.0	41.7
Md97-6525	44.1	42.8	44.0	42.3	46.7	44.6
Md97-6546	43.8	41.6	44.3	42.6	45.9	44.5

PRELIMINARY TEST IVA, 2000

OIL (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Lexington KY	Midway MO	Mt. Orab OH
HS93-4118 (IV)	19.6	19.8	18.9	19.8	20.5	18.9
Mustang (L) (SCN)	18.6	18.3	18.6	19.4	19.3	17.6
Macon (III)	19.5	20.1	20.0	19.6	20.4	17.6
HC95-3553	20.3	20.3	20.0	20.7	20.3	20.0
HC95-3993	19.2	19.2	18.8	19.5	19.5	19.0
HC95-3995	19.6	19.1	18.8	19.3	19.3	21.4
HC96-2737	20.0	20.2	20.0	20.2	20.3	19.2
HC96-2744	19.3	19.5	19.2	19.8	19.7	18.4
HC96-2954	20.0	20.0	19.9	20.1	20.7	19.3
HC97-166PR	18.8	18.9	18.2	19.4	19.4	18.0
HC97-168PR	18.5	18.4	18.0	18.7	18.9	18.8
HC97-232PR	19.3	18.9	18.8	19.8	20.5	18.4
HC97-235PR	19.1	19.5	19.1	19.4	19.6	17.7
HC97-240PR	19.1	18.7	18.7	19.7	19.7	18.6
HC97-438	19.6	19.4	19.3	19.4	20.5	19.6
HC97-446	20.0	20.0	19.9	20.1	21.2	19.0
HC97-465	19.5	19.3	19.3	19.5	20.4	19.0
HC97-1557	20.1	19.8	19.9	20.4	20.6	20.0
HC97-3674	19.9	20.3	19.5	19.8	20.3	19.6
K1490	19.6	19.9	19.4	19.5	20.4	19.0
K1491	18.9	19.2	18.9	18.7	19.8	18.0
K1492	19.9	20.1	19.7	19.8	20.8	19.0
K1493	19.7	19.5	19.7	20.2	19.9	19.3
K1494	19.7	19.0	19.7	20.3	20.9	18.7
K1495	19.4	19.2	19.1	19.4	20.3	18.8
K1496	19.7	19.0	19.8	20.5	20.8	18.6
K1497	19.8	20.0	19.4	20.2	20.5	18.9
LS97-0219	19.3	19.3	19.2	19.2	19.8	18.9
LS97-1218	20.0	19.5	19.8	20.4	21.1	19.2
LS97-3221	19.7	19.4	20.0	20.2	19.7	19.0
LS97-3406	19.4	18.8	19.5	19.6	20.4	18.6
LS97-3617	19.2	19.2	18.6	19.5	20.4	18.3
LS97-3718	20.0	19.4	19.5	20.4	20.7	20.1
LS97-3817	19.3	19.4	19.0	19.4	19.9	18.8
Md97-5902	19.2	19.3	19.0	19.5	19.9	18.5
Md97-6521	19.6	19.5	19.5	19.5	20.0	19.5
Md97-6525	18.9	18.7	19.2	19.2	18.7	18.6
Md97-6546	19.6	19.9	19.4	19.8	19.8	19.1

Preliminary Test IVB, 2000

	Strain	Parentage	Generation Composited	Unique Traits
1.	HS93-4118 (IV)	IA2007 x Dairyland DSR 304	F5	Rps1-c
2.	Mustang (L) (SCN)	Fayette x Pyramid	F5	
3.	Macon (III)	Sherman x Resnik	F5	
4.	Strong	Sprite 87 x HC85-6577	F5	dt1
5.	C2007	A92-725035 x Athow	F5	
6.	C2008	A92-725035 x Athow	F5	
7.	C2009	A92-725035 x Athow	F5	
8.	HC93-1086	Charleston x HC78-676-2	F5	
9.	HC94-63PR	Charleston(6) x Hobbit 87	BC5F3	dt1, Rps1k
10.	HC94-488	Hobbot 87 x HC85-6577	F5	dt1
11.	HC94-944	HC85-606 x HC78-676BC	F5	dt1
12.	HC94-974	HC85-606 x HC78-676BC	F5	dt1
13.	HC94-1363	Charleston x Sprite Rps4	F5	dt1
14.	HC95-1465	Hobbit 87 x HC87-5844	F5	dt1
15.	HC95-1948	Charleston x HC78-352BC	F5	dt1
16.	HC96-39PR	HC85-6723(4) x HC78-676BC	BC3F3	dt1, Rps1k
17.	HC96-55PR	HC85-6723(4) x HC78-676BC	BC3F3	dt1, Rps1k
18.	HC96-74PR	Charleston(5) x HC74-634REBC	BC4F3	dt1, Rps1k
19.	HC96-1052	HC85-6723(4) x Sprite Rps4	BC3F3	dt1, Rps4
20.	HC96-1586	HC85-6723(4) x Sprite Rps4	BC3F3	dt1, Rps4
21.	HC96-1620	HC85-6723(3) x HC78-676-2	BC2F3	dt1, Rps1k
22.	HC96-1622	HC85-6723(3) x HC78-676-2	BC2F3	dt1, Rps1k
23.	HC97-18MB	L96K-96 x HC83-19-2	F5	dt1, Insect Res.
24.	HC97-27MB	HC81-51MB x HC83-193	F5	dt1, Insect Res.
25.	HC97-83PR	HC85-607(4) x Hobbit 87	BC3F3	dt1, Rps1k
26.	HC97-120PR	HC85-6723B(5) x HC74-634REB6	BC4F3	dt1, Rps1k
27.	LN97-11505	Thorne x Cisne	F5	
28.	LN97-11702	LN89-334 x Stressland	F5	
29.	LN97-13138	LN89-334 x Macon	F5	
30.	LN97-15076	Macon x Stressland	F5	
31.	LN97-18235	K1262 x Cisne	F5	
32.	SN97-1910	Stressland x Asgrow A3237	F5	
33.	SN97-1938	Stressland x Asgrow A3237	F5	
34.	SN97-1974	Stressland x Asgrow A3237	F5	
35.	U98-201559	Parker x Dunbar	F4	
36.	U98-300460	MSBP5	F4	
37.	U98-307157	U94-3412 x A94-774021	F4	
38.	U98-308307	U94-2306 x Stressland	F4	

PRELIMINARY TEST IVB, 2000

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan	Lafayette Race 7	PS Lafayette a %	P&SB Lafayette n %
HS93-4118 (IV)	WGBDYBIIep	1.0	R	34	6
Mustang (L) (SCN)	WGTSYBflEp	1.0	S	42	10
Macon (III)	WTBSYBIIEp	2.0	S	30	4
Strong (dt1)	WTBDYBlDep	1.0	R	14	0
C2007	PTBDYBIIH	1.0	R	8	10
C2008	PTBSYBIIep	1.0	R	18	2
C2009	PTBDYBIIEp	1.0	R	16	8
HC93-1086	PTBSYBrDEp	1.0	R	22	0
HC94-63PR	PTBSYBlDEp	2.0	R	2	0
HC94-488	WTBDYBlDep	1.0	R	4	0
HC94-944	WTBDYBlDEp	1.0	S	10	6
HC94-974	PTBSYBlDep	2.0	R	48	10
HC94-1363	PTBSYBrDep	2.0	R	8	6
HC95-1465	WTBSYBlDep	2.0	S	40	2
HC95-1948	PTBSYBlDep	1.0	R	10	4
HC96-39PR	WTBSYBlDEp	1.0	R	54	2
HC96-55PR	PTBSYBlDEp	2.0	R	40	4
HC96-74PR	PTBSYBlDEp	2.0	R	6	2
HC96-1052	WTBSYBlDEp	1.0	S	36	2
HC96-1586	WTBSYBlDEp	2.0	S	16	4
HC96-1620	P+WTBSYBlDEp	1.0	S	28	2
HC96-1622	PTBSYBlDEp	1.0	R	18	2
HC97-18MB	PTBDYBlDEp	1.0	R	2	0
HC97-27MB	PTBDYBlDEp	2.0	R	4	0
HC97-83PR	PTBSYBlDep	1.0	R	12	0
HC97-120PR	WTBSYBlDEp	1.0	R	26	4
LN97-11505	WTBDYBIIep	1.0	R	12	2
LN97-11702	WGBDYBflep	1.0	S	36	2
LN97-13138	WGBDYBflEp	1.0	R	20	2
LN97-15076	WTBDYBIIEp	2.0	S	24	0
LN97-18235	WTBDYBrIep	1.0	R	42	12
SN97-1910	PTBDYBIIep	2.0	S	10	4
SN97-1938	PTBDYBIIep	2.0	S	6	0
SN97-1974	WTBSYBIIep	2.0	S	8	0
U98-201559	WGTDYBflEp	2.0	S	38	0
U98-300460	PGBDYBIIEp	1.0	S	38	4
U98-307157	PGBDYBIIep	1.0	S	12	0
U98-308307	WGBDYBIIep	1.0	S	28	4

PRELIMINARY TEST IVB, 2000

REGIONAL SUMMARY

No. of Tests Strain	Yield 8 bu/a	Rank 8 No.	Maturity 9 Date	Lodging 9 Score	Plant Height 9 In.	Seed Size 9 g/100	Composition Protein 5 %	 Oil 5 %
HS93-4118 (IV)	62.8	6	9/22	1.3	33	15.0	41.7	19.5
Mustang (L) (SCN)	53.2	36	5.4	1.6	38	13.5	43.9	19.0
Macon (III)	63.7	1	0.6	1.5	34	16.9	43.3	19.6
Strong (dt1)	58.8	20	1.1	1.3	24	17.7	43.1	20.3
C2007	63.3	4	2.9	1.3	35	15.4	42.4	19.6
C2008	58.6	21	3.0	1.8	36	16.6	42.6	20.0
C2009	61.0	12	2.9	1.5	36	15.2	41.7	19.9
HC93-1086	58.4	24	-1.4	1.2	21	13.7	42.5	19.3
HC94-63PR	61.9	9	-1.7	1.2	21	16.0	42.4	19.9
HC94-488	57.8	25	2.8	1.2	21	16.7	41.1	20.8
HC94-944	63.6	3	-0.4	1.1	22	14.2	42.9	19.9
HC94-974	57.0	27	-0.5	1.1	20	14.4	43.0	19.9
HC94-1363	58.5	23	-0.7	1.3	22	14.6	42.2	20.0
HC95-1465	55.4	33	-1.8	1.1	21	13.5	42.1	19.9
HC95-1948	54.4	34	-2.2	1.1	19	15.9	43.0	20.7
HC96-39PR	54.3	35	1.4	1.1	22	16.8	42.7	20.2
HC96-55PR	57.7	26	0.6	1.2	23	16.4	42.4	19.6
HC96-74PR	60.3	15	0.3	1.3	22	13.2	42.4	19.4
HC96-1052	56.0	31	2.4	1.1	23	15.6	42.4	19.9
HC96-1586	59.6	18	2.5	1.2	23	17.3	42.9	19.9
HC96-1620	55.9	32	2.3	1.2	22	16.1	43.3	19.6
HC96-1622	56.4	28	1.2	1.2	22	16.1	42.9	19.7
HC97-18MB	51.9	37	-0.6	1.4	24	15.3	44.2	18.7
HC97-27MB	50.2	38	-2.4	1.8	25	16.6	45.2	18.5
HC97-83PR	59.1	19	-2.1	1.3	22	15.0	40.3	20.8
HC97-120PR	56.4	28	1.1	1.1	22	16.4	43.2	20.0
LN97-11505	63.7	1	1.8	2.0	34	17.3	42.7	20.3
LN97-11702	63.1	5	3.4	2.4	37	14.3	43.6	20.0
LN97-13138	62.1	8	0.0	2.2	34	15.1	44.2	19.3
LN97-15076	62.7	7	3.6	1.5	39	15.7	43.9	19.3
LN97-18235	59.7	17	4.8	1.6	36	18.5	44.2	19.6
SN97-1910	61.1	11	7.6	2.5	40	12.8	42.7	19.6
SN97-1938	61.0	12	7.4	2.3	40	12.8	44.5	19.1
SN97-1974	60.2	16	7.1	2.3	39	13.4	44.9	19.3
U98-201559	56.3	30	-1.3	2.1	37	13.2	43.5	20.0
U98-300460	58.6	21	1.1	2.3	38	15.6	43.0	19.9
U98-307157	61.6	10	-1.4	2.0	32	13.9	42.4	19.6
U98-308307	60.6	14	4.0	1.8	37	13.5	45.8	18.8

132.9 Days After Planting

PRELIMINARY TEST IVB, 2000

YIELD (bu/a)

Strain	Mean 8 Tests	Belleville* IL	Urbana IL	Lafayette IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	62.8	42.4	47.5	51.3	53.8	72.5
Mustang (L) (SCN)	53.2	22.2	52.4	49.9	42.2	65.9
Macon (III)	63.7	45.9	54.1	49.2	55.0	79.8
Strong (dt1)	58.8	50.4	54.1	45.1	45.5	70.4
C2007	63.3	43.9	48.8	57.4	51.0	74.8
C2008	58.6	33.1	49.3	52.8	52.8	74.6
C2009	61.0	33.2	46.5	54.1	55.0	73.9
HC93-1086	58.4	47.8	50.7	51.8	53.2	60.1
HC94-63PR	61.9	24.4	53.8	55.3	58.9	65.7
HC94-488	57.8	30.1	45.3	46.5	52.8	67.4
HC94-944	63.6	46.3	56.3	53.6	56.6	71.0
HC94-974	57.0	37.6	44.6	51.8	45.5	65.3
HC94-1363	58.5	50.5	46.1	41.6	55.2	60.9
HC95-1465	55.4	46.1	47.3	42.3	52.4	54.7
HC95-1948	54.4	55.4	45.6	43.2	49.6	55.3
HC96-39PR	54.3	26.1	43.8	46.5	41.6	59.6
HC96-55PR	57.7	18.2	45.2	46.8	49.2	62.8
HC96-74PR	60.3	38.8	49.3	50.2	50.0	67.3
HC96-1052	56.0	36.7	42.2	49.8	47.5	59.5
HC96-1586	59.6	33.4	43.2	51.9	48.4	65.5
HC96-1620	55.9	25.2	44.7	48.0	50.6	61.1
HC96-1622	56.4	36.9	42.5	51.2	47.8	67.8
HC97-18MB	51.9	37.3	34.9	44.3	52.0	54.1
HC97-27MB	50.2	45.7	39.3	44.8	44.7	56.8
HC97-83PR	59.1	38.5	51.6	51.6	52.8	66.9
HC97-120PR	56.4	50.7	45.0	49.6	43.8	59.5
LN97-11505	63.7	47.2	52.2	48.4	60.3	70.9
LN97-11702	63.1	53.5	52.5	50.8	54.6	80.2
LN97-13138	62.1	36.6	51.9	47.1	55.0	69.8
LN97-15076	62.7	41.8	48.7	49.9	54.0	70.3
LN97-18235	59.7	35.7	50.7	48.8	57.6	68.8
SN97-1910	61.1	39.6	50.5	52.4	52.9	72.9
SN97-1938	61.0	55.2	51.2	55.1	49.8	73.8
SN97-1974	60.2	58.5	49.2	49.6	53.4	76.9
U98-201559	56.3	40.6	48.5	45.1	54.3	66.6
U98-300460	58.6	52.8	37.1	41.3	49.5	73.7
U98-307157	61.6	46.4	48.9	51.3	49.8	76.3
U98-308307	60.6	34.0	40.1	52.3	56.0	69.2
C.V. (%)		25.2	6.6	8.4	3.6	8.0
L.S.D. (5%)		20.7	6.4	8.5	3.1	9.1
Row Sp. (In.)		30	30	24	30	15
Rows/Plot		4	4	4	4	6
Reps		2	2	2	2	2

* Data not included in the mean.

PRELIMINARY TEST IVB, 2000

YIELD (bu/a)

Strain	Queenstown MD	Midway MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	63.2	78.1	60.0	75.7
Mustang (L) (SCN)	51.5	62.0	48.4	53.0
Macon (III)	64.5	83.5	57.3	65.8
Strong (dt1)	67.5	65.7	58.2	64.0
C2007	67.7	79.5	61.1	66.3
C2008	58.6	66.8	50.0	63.8
C2009	62.1	72.3	57.8	66.0
HC93-1086	64.0	65.2	50.6	71.5
HC94-63PR	64.6	75.0	58.2	63.4
HC94-488	66.7	69.1	40.9	73.3
HC94-944	66.4	75.0	56.6	73.3
HC94-974	65.9	65.6	47.4	69.7
HC94-1363	67.3	71.0	56.1	69.8
HC95-1465	58.2	70.7	49.8	67.7
HC95-1948	65.1	65.2	42.7	68.5
HC96-39PR	64.1	66.2	48.6	63.7
HC96-55PR	63.9	67.6	53.0	72.9
HC96-74PR	67.8	77.0	52.3	68.5
HC96-1052	62.2	70.1	52.5	64.1
HC96-1586	64.7	72.5	62.0	68.6
HC96-1620	63.7	70.1	44.2	64.6
HC96-1622	63.8	64.5	44.3	69.2
HC97-18MB	56.6	59.9	53.5	60.3
HC97-27MB	50.4	66.0	46.0	53.8
HC97-83PR	62.7	68.5	49.0	69.5
HC97-120PR	63.5	65.6	56.4	68.0
LN97-11505	70.3	84.9	51.5	71.4
LN97-11702	64.1	81.5	59.1	62.4
LN97-13138	61.4	74.9	69.3	67.5
LN97-15076	65.3	78.1	64.3	70.7
LN97-18235	62.7	70.4	54.0	64.3
SN97-1910	59.1	72.4	66.6	62.0
SN97-1938	62.5	74.2	57.1	64.0
SN97-1974	64.4	83.1	49.1	55.6
U98-201559	59.0	70.4	43.3	63.5
U98-300460	65.2	78.8	55.6	67.9
U98-307157	64.8	75.9	54.3	71.7
U98-308307	64.4	79.6	55.3	67.9
C.V. (%)	6.2	5.0	12.8	6.1
L.S.D. (5%)	7.9	5.5	13.7	8.2
Row Sp. (In.)	24	30	15	7.5
Rows/Plot	4	4	6	8
Reps	2	2	2	2

PRELIMINARY TEST IVB, 2000

YIELD RANK

Strain	Yield Rank	Belleville IL	Urbana IL	Lafayette IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	6	17	21	13	13	11
Mustang (L) (SCN)	36	37	6	18	37	24
Macon (III)	1	14	2	23	7	2
Strong (dt1)	20	8	3	31	33	14
C2007	4	16	18	1	22	5
C2008	21	32	14	6	17	6
C2009	12	31	23	4	7	7
HC93-1086	24	9	11	10	15	31
HC94-63PR	9	36	4	2	2	25
HC94-488	25	33	26	29	17	20
HC94-944	3	12	1	5	4	12
HC94-974	27	23	30	10	33	27
HC94-1363	23	7	24	37	6	30
HC95-1465	33	13	22	36	20	37
HC95-1948	34	2	25	35	27	36
HC96-39PR	35	34	31	29	38	32
HC96-55PR	26	38	27	28	29	28
HC96-74PR	15	21	14	17	24	21
HC96-1052	31	26	34	20	32	33
HC96-1586	18	30	32	9	30	26
HC96-1620	32	35	29	26	23	29
HC96-1622	28	25	33	15	31	19
HC97-18MB	37	24	38	34	21	38
HC97-27MB	38	15	36	33	35	35
HC97-83PR	19	22	9	12	17	22
HC97-120PR	28	6	28	21	36	33
LN97-11505	1	10	7	25	1	13
LN97-11702	5	4	5	16	10	1
LN97-13138	8	27	8	27	7	16
LN97-15076	7	18	19	18	12	15
LN97-18235	17	28	11	24	3	18
SN97-1910	11	20	13	7	16	10
SN97-1938	12	3	10	3	25	8
SN97-1974	16	1	16	21	14	3
U98-201559	30	19	20	31	11	23
U98-300460	21	5	37	38	28	9
U98-307157	10	11	17	13	25	4
U98-308307	14	29	35	8	5	17

PRELIMINARY TEST IVB, 2000

YIELD RANK

Strain	Queenstown MD	Midway MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	25	8	6	1
Mustang (L) (SCN)	37	37	31	38
Macon (III)	15	2	11	23
Strong (dt1)	4	31	8	28
C2007	3	6	5	21
C2008	34	28	26	29
C2009	30	18	10	22
HC93-1086	20	34	25	6
HC94-63PR	14	12	8	32
HC94-488	6	25	38	2
HC94-944	7	12	13	3
HC94-974	8	32	32	10
HC94-1363	5	19	15	9
HC95-1465	35	20	27	19
HC95-1948	11	34	37	14
HC96-39PR	18	29	30	30
HC96-55PR	21	27	21	4
HC96-74PR	2	10	23	15
HC96-1052	29	23	22	26
HC96-1586	13	16	4	13
HC96-1620	23	23	35	24
HC96-1622	22	36	34	12
HC97-18MB	36	38	20	35
HC97-27MB	38	30	33	37
HC97-83PR	26	26	29	11
HC97-120PR	24	32	14	16
LN97-11505	1	1	24	7
LN97-11702	18	4	7	33
LN97-13138	31	14	1	20
LN97-15076	9	8	3	8
LN97-18235	26	21	19	25
SN97-1910	32	17	2	34
SN97-1938	28	15	12	27
SN97-1974	16	3	28	36
U98-201559	33	21	36	31
U98-300460	10	7	16	18
U98-307157	12	11	18	5
U98-308307	16	5	17	17

PRELIMINARY TEST IVB, 2000

MATURITY (date)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Lafayette IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	09/22	09/15	09/18	09/22	09/27	09/12
Mustang (L) (SCN)	5.4	-1	10	8	3	10
Macon (III)	0.6	-1	6	-1	1	3
Strong (dt1)	1.1	1	0	-1	-1	2
C2007	2.9	2	6	5	2	8
C2008	3.0	3	4	6	0	7
C2009	2.9	3	4	3	1	8
HC93-1086	-1.4	-3	-2	-4	2	-1
HC94-63PR	-1.7	-4	-2	-1	1	-3
HC94-488	2.8	1	5	6	3	7
HC94-944	-0.4	1	-1	0	2	1
HC94-974	-0.5	1	-1	-1	1	3
HC94-1363	-0.7	-2	-2	-2	2	3
HC95-1465	-1.8	-2	-2	-2	3	-1
HC95-1948	-2.2	-1	-2	-2	2	-2
HC96-39PR	1.4	-3	1	1	2	8
HC96-55PR	0.6	-2	0	0	1	5
HC96-74PR	0.3	-1	0	2	3	3
HC96-1052	2.4	-3	5	2	2	6
HC96-1586	2.5	-2	4	2	3	6
HC96-1620	2.3	-1	3	2	3	6
HC96-1622	1.2	-1	1	1	3	7
HC97-18MB	-0.6	-1	0	0	-4	2
HC97-27MB	-2.4	-4	-2	-2	-7	-1
HC97-83PR	-2.1	0	-2	-2	-2	0
HC97-120PR	1.1	0	0	-1	3	4
LN97-11505	1.8	1	3	2	2	4
LN97-11702	3.4	3	1	4	4	8
LN97-13138	0.0	1	2	-2	-2	1
LN97-15076	3.6	4	4	3	2	2
LN97-18235	4.8	5	6	4	4	9
SN97-1910	7.6	6	10	9	-1	11
SN97-1938	7.4	9	9	10	1	10
SN97-1974	7.1	10	9	9	2	10
U98-201559	-1.3	-2	1	-1	-1	1
U98-300460	1.1	1	0	-1	1	6
U98-307157	-1.4	-1	0	-1	-4	0
U98-308307	4.0	7	6	5	-1	7
Date Planted	05/12	05/05	04/28	05/05	05/23	05/12
Days to Mature	133	133	143	140	127	123

PRELIMINARY TEST IVB, 2000

MATURITY (date)

Strain	Queenstown MD	Midway MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	10/04	09/26	09/20	09/24
Mustang (L) (SCN)	1	6	3	9
Macon (III)	0	1	-1	-3
Strong (dt1)	0	0	1	7
C2007	2	1	0	1
C2008	2	2	3	0
C2009	2	1	3	1
HC93-1086	-1	0	-3	-1
HC94-63PR	-1	-1	-1	-4
HC94-488	2	0	-2	4
HC94-944	-1	-2	-2	-1
HC94-974	-1	-1	-1	-4
HC94-1363	0	-3	-2	0
HC95-1465	-4	-3	-1	-4
HC95-1948	-2	-3	-4	-5
HC96-39PR	2	1	-1	2
HC96-55PR	1	1	-2	1
HC96-74PR	0	0	0	-4
HC96-1052	2	1	0	6
HC96-1586	3	1	1	4
HC96-1620	2	1	-2	7
HC96-1622	0	1	-1	0
HC97-18MB	0	-4	0	2
HC97-27MB	0	-4	-1	-1
HC97-83PR	-3	-3	-3	-4
HC97-120PR	0	1	-1	4
LN97-11505	1	2	1	1
LN97-11702	0	3	4	4
LN97-13138	0	0	2	-2
LN97-15076	3	3	6	6
LN97-18235	4	3	5	4
SN97-1910	4	5	13	11
SN97-1938	3	5	9	11
SN97-1974	2	6	5	11
U98-201559	-3	-2	-3	-2
U98-300460	2	-1	0	2
U98-307157	-3	-1	-1	-2
U98-308307	1	1	4	6
Date Planted	06/08	05/19	05/04	05/04
Days to Mature	118	130	139	143

PRELIMINARY TEST IVB, 2000

LODGING (score)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Lafayette IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	1.3	1.3	1.3	1.3	1.0	1.0
Mustang (L) (SCN)	1.6	1.5	1.5	1.3	1.0	1.3
Macon (III)	1.5	1.5	1.5	1.3	1.5	1.3
Strong (dt1)	1.3	1.0	1.0	1.0	1.0	1.0
C2007	1.3	1.3	1.0	1.0	1.0	1.5
C2008	1.8	2.3	1.3	1.3	1.0	1.5
C2009	1.5	1.5	1.5	1.0	1.5	1.5
HC93-1086	1.2	1.0	1.0	1.0	1.0	1.0
HC94-63PR	1.2	1.0	1.0	1.0	1.0	1.0
HC94-488	1.2	1.0	1.0	1.3	1.0	1.0
HC94-944	1.1	1.0	1.0	1.0	1.0	1.0
HC94-974	1.1	1.0	1.0	1.0	1.0	1.0
HC94-1363	1.3	1.0	1.0	1.3	1.0	1.0
HC95-1465	1.1	1.0	1.0	1.0	1.0	1.0
HC95-1948	1.1	1.0	1.0	1.0	1.0	1.0
HC96-39PR	1.1	1.0	1.0	1.0	1.0	1.0
HC96-55PR	1.2	1.0	1.0	1.0	1.0	1.0
HC96-74PR	1.3	1.0	1.0	1.0	1.0	1.0
HC96-1052	1.1	1.0	1.0	1.0	1.0	1.0
HC96-1586	1.2	1.0	1.0	1.0	1.0	1.0
HC96-1620	1.2	1.0	1.0	1.0	1.0	1.0
HC96-1622	1.2	1.0	1.0	1.0	1.0	1.0
HC97-18MB	1.4	1.0	1.0	1.0	1.0	1.0
HC97-27MB	1.8	1.0	1.0	1.5	1.0	1.0
HC97-83PR	1.3	1.0	1.0	1.5	1.0	1.0
HC97-120PR	1.1	1.0	1.0	1.0	1.0	1.0
LN97-11505	2.0	2.8	1.5	1.3	2.0	2.0
LN97-11702	2.4	4.3	1.5	1.8	1.0	1.8
LN97-13138	2.2	2.8	1.3	1.0	2.5	1.0
LN97-15076	1.5	1.8	1.0	1.0	1.0	1.5
LN97-18235	1.6	2.3	1.0	1.0	1.0	1.5
SN97-1910	2.5	2.3	1.8	1.0	1.5	2.3
SN97-1938	2.3	3.3	1.3	1.3	1.5	2.3
SN97-1974	2.3	3.3	1.5	1.3	1.5	2.0
U98-201559	2.1	2.8	1.0	1.5	2.0	1.5
U98-300460	2.3	2.0	1.0	2.5	2.0	2.5
U98-307157	2.0	4.0	1.0	1.8	1.0	1.0
U98-308307	1.8	2.5	1.0	1.3	1.0	1.3

PRELIMINARY TEST IVB, 2000

LODGING (score)

Strain	Queenstown MD	Midway MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	1.8	1.0	1.7	1.3
Mustang (L) (SCN)	2.5	2.0	1.9	1.8
Macon (III)	1.8	1.0	1.5	1.8
Strong (dt1)	2.0	1.0	1.4	2.5
C2007	1.8	1.0	1.8	1.5
C2008	3.0	2.0	2.7	1.5
C2009	2.5	1.0	1.7	1.3
HC93-1086	1.3	1.0	1.5	2.0
HC94-63PR	1.8	1.0	1.3	2.0
HC94-488	1.5	1.0	1.4	1.3
HC94-944	1.5	1.0	1.0	1.8
HC94-974	1.5	1.0	1.2	1.3
HC94-1363	2.0	1.0	1.4	1.8
HC95-1465	1.5	1.0	1.0	1.3
HC95-1948	1.5	1.0	0.9	1.3
HC96-39PR	1.5	1.0	1.2	1.3
HC96-55PR	1.8	1.0	1.4	1.5
HC96-74PR	2.0	1.0	1.4	2.0
HC96-1052	1.3	1.0	1.2	1.5
HC96-1586	1.8	1.0	1.4	2.0
HC96-1620	2.0	1.0	1.2	1.8
HC96-1622	1.5	1.0	1.1	1.8
HC97-18MB	2.3	1.0	1.5	3.0
HC97-27MB	3.3	1.0	2.5	3.8
HC97-83PR	1.8	1.0	1.3	1.8
HC97-120PR	1.5	1.0	1.2	1.5
LN97-11505	2.5	3.0	1.5	1.8
LN97-11702	3.3	4.0	1.8	2.0
LN97-13138	2.0	4.0	2.3	2.8
LN97-15076	2.3	2.0	1.5	1.5
LN97-18235	2.5	2.0	1.9	1.0
SN97-1910	3.3	4.0	4.8	2.0
SN97-1938	3.5	3.0	2.0	2.3
SN97-1974	3.3	3.0	2.6	2.3
U98-201559	3.3	2.0	2.6	2.3
U98-300460	3.5	3.0	2.1	2.0
U98-307157	1.8	4.0	1.8	1.5
U98-308307	3.0	2.0	1.7	2.0

PRELIMINARY TEST IVB, 2000

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Lafayette IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	33	30	30	32	42	30
Mustang (L) (SCN)	38	28	35	39	47	36
Macon (III)	34	29	32	33	40	33
Strong (dt1)	24	17	24	24	28	23
C2007	35	32	29	33	43	35
C2008	36	27	30	38	43	36
C2009	36	32	30	33	45	38
HC93-1086	21	13	25	22	22	20
HC94-63PR	21	14	22	22	28	20
HC94-488	21	16	24	22	23	20
HC94-944	22	17	24	23	23	23
HC94-974	20	15	23	21	23	21
HC94-1363	22	17	21	21	27	20
HC95-1465	21	16	21	20	24	19
HC95-1948	19	13	20	18	22	18
HC96-39PR	22	12	24	23	25	19
HC96-55PR	23	14	22	23	26	22
HC96-74PR	22	13	24	23	25	19
HC96-1052	23	14	25	25	24	21
HC96-1586	23	17	24	25	25	21
HC96-1620	22	15	25	21	26	21
HC96-1622	22	14	22	25	22	21
HC97-18MB	24	18	25	22	27	23
HC97-27MB	25	22	24	25	31	23
HC97-83PR	22	17	24	24	25	19
HC97-120PR	22	14	22	21	24	23
LN97-11505	34	31	30	33	42	33
LN97-11702	37	38	31	35	40	36
LN97-13138	34	35	29	31	44	29
LN97-15076	39	36	37	36	46	35
LN97-18235	36	30	30	38	44	36
SN97-1910	40	35	35	36	46	40
SN97-1938	40	36	34	41	49	40
SN97-1974	39	37	33	37	46	39
U98-201559	37	30	36	34	51	33
U98-300460	38	32	33	36	50	38
U98-307157	32	29	30	31	39	28
U98-308307	37	38	31	36	45	32

PRELIMINARY TEST IVB, 2000

PLANT HEIGHT (inches)

Strain	Queenstown MD	Midway MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	34	39	30	34
Mustang (L) (SCN)	39	48	33	42
Macon (III)	33	43	26	36
Strong (dt1)	22	24	22	29
C2007	35	45	31	36
C2008	37	46	32	37
C2009	36	43	30	38
HC93-1086	19	21	22	26
HC94-63PR	21	21	18	24
HC94-488	21	23	17	25
HC94-944	21	24	17	26
HC94-974	18	24	17	20
HC94-1363	22	24	21	27
HC95-1465	22	24	20	25
HC95-1948	20	22	19	23
HC96-39PR	23	28	16	28
HC96-55PR	24	28	17	30
HC96-74PR	22	23	20	26
HC96-1052	23	26	20	28
HC96-1586	24	23	20	27
HC96-1620	24	23	22	26
HC96-1622	24	23	20	27
HC97-18MB	23	27	24	30
HC97-27MB	24	27	22	30
HC97-83PR	22	22	20	27
HC97-120PR	23	24	19	27
LN97-11505	34	45	26	34
LN97-11702	34	50	33	36
LN97-13138	33	42	29	33
LN97-15076	38	49	34	40
LN97-18235	37	45	30	39
SN97-1910	40	48	38	41
SN97-1938	40	48	31	41
SN97-1974	39	46	33	41
U98-201559	38	48	27	36
U98-300460	37	46	29	38
U98-307157	32	42	26	32
U98-308307	37	49	30	36

PRELIMINARY TEST IVB, 2000

SEED SIZE (g/100)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Lafayette IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	15.0	12.1	14.4	14.1	16.0	15.1
Mustang (L) (SCN)	13.5	9.3	14.0	13.6	15.2	13.9
Macon (III)	16.9	14.0	16.3	15.4	17.2	18.4
Strong (dt1)	17.7	16.0	14.8	15.2	18.8	19.3
C2007	15.4	12.0	14.6	15.9	16.7	14.9
C2008	16.6	13.2	16.9	15.5	16.8	18.2
C2009	15.2	12.5	15.0	14.4	16.0	14.9
HC93-1086	13.7	11.6	12.6	12.5	15.5	14.0
HC94-63PR	16.0	12.7	14.3	14.4	20.1	16.4
HC94-488	16.7	12.9	15.0	17.1	17.4	18.5
HC94-944	14.2	13.9	13.6	13.1	15.8	15.6
HC94-974	14.4	14.4	12.7	14.4	16.2	14.7
HC94-1363	14.6	12.3	13.3	15.1	15.9	15.6
HC95-1465	13.5	12.4	12.1	12.3	13.8	15.0
HC95-1948	15.9	14.7	14.3	15.3	17.0	16.5
HC96-39PR	16.8	13.7	15.8	16.6	17.6	18.5
HC96-55PR	16.4	13.2	15.3	15.4	17.3	18.2
HC96-74PR	13.2	10.6	12.1	13.9	13.8	13.2
HC96-1052	15.6	11.8	14.4	15.3	16.7	17.3
HC96-1586	17.3	14.2	15.1	16.4	18.3	18.6
HC96-1620	16.1	13.3	14.2	16.8	16.9	17.2
HC96-1622	16.1	14.1	14.8	16.7	16.6	18.0
HC97-18MB	15.3	13.2	14.9	14.8	16.6	15.2
HC97-27MB	16.6	14.7	14.3	16.1	18.0	17.4
HC97-83PR	15.0	13.8	13.8	15.1	16.3	15.9
HC97-120PR	16.4	14.1	14.8	15.7	17.4	17.0
LN97-11505	17.3	15.1	16.5	14.5	19.8	17.1
LN97-11702	14.3	12.6	13.2	13.8	17.5	14.4
LN97-13138	15.1	12.8	14.6	12.6	16.9	15.6
LN97-15076	15.7	11.3	15.5	15.1	16.4	16.2
LN97-18235	18.5	14.7	16.5	18.2	20.2	18.6
SN97-1910	12.8	9.4	13.0	12.6	13.2	12.4
SN97-1938	12.8	11.0	13.1	11.9	13.7	12.9
SN97-1974	13.4	11.9	13.8	12.3	14.9	13.5
U98-201559	13.2	10.9	12.7	12.9	14.6	13.4
U98-300460	15.6	12.6	13.0	15.1	18.1	16.4
U98-307157	13.9	11.1	15.2	12.9	15.6	14.1
U98-308307	13.5	12.1	12.8	12.4	13.9	13.4

PRELIMINARY TEST IVB, 2000

SEED SIZE (g/100)

Strain	Queenstown MD	Midway MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	15.9	17.0	15.6	14.9
Mustang (L) (SCN)	15.8	14.0	12.0	13.5
Macon (III)	18.6	16.0	17.2	18.6
Strong (dt1)	19.8	18.0	19.0	18.0
C2007	17.2	17.0	15.2	14.9
C2008	18.4	17.0	17.1	15.9
C2009	16.7	17.0	16.5	14.1
HC93-1086	14.8	14.0	13.5	14.4
HC94-63PR	17.3	17.0	15.3	16.5
HC94-488	19.6	17.0	16.0	17.0
HC94-944	13.6	15.0	13.3	14.1
HC94-974	15.3	14.0	13.4	14.5
HC94-1363	15.5	14.0	14.6	15.2
HC95-1465	14.4	14.0	13.2	14.2
HC95-1948	17.1	16.0	15.4	17.1
HC96-39PR	17.8	19.0	15.1	17.0
HC96-55PR	17.6	18.0	15.1	17.3
HC96-74PR	15.6	13.0	13.3	13.6
HC96-1052	16.6	17.0	14.5	16.6
HC96-1586	20.0	19.0	16.5	17.7
HC96-1620	17.5	18.0	14.7	16.7
HC96-1622	16.8	17.0	15.4	15.5
HC97-18MB	17.6	16.0	14.2	15.3
HC97-27MB	18.7	18.0	15.6	16.9
HC97-83PR	15.9	15.0	14.1	15.5
HC97-120PR	17.0	18.0	15.8	17.5
LN97-11505	19.9	20.0	16.4	16.4
LN97-11702	16.1	15.0	12.4	13.6
LN97-13138	16.2	16.0	16.7	14.8
LN97-15076	18.3	17.0	15.2	16.0
LN97-18235	22.8	19.0	19.1	17.5
SN97-1910	15.1	14.0	12.6	13.1
SN97-1938	14.6	13.0	11.4	13.2
SN97-1974	15.4	14.0	11.5	13.6
U98-201559	15.3	13.0	12.4	13.9
U98-300460	17.8	17.0	16.2	14.3
U98-307157	14.9	14.0	13.4	13.7
U98-308307	15.5	15.0	13.2	13.5

PRELIMINARY TEST IVB, 2000

PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Lexington KY	Midway MO	Mt. Orab OH
HS93-4118 (IV)	41.7	41.3	41.3	40.8	42.2	42.8
Mustang (L) (SCN)	43.9	45.8	44.2	42.1	44.5	43.2
Macon (III)	43.3	43.8	44.0	41.8	44.0	42.8
Strong (dt1)	43.1	42.6	42.7	43.8	41.9	44.3
C2007	42.4	42.7	42.4	43.1	42.3	41.6
C2008	42.6	43.6	41.5	42.8	42.0	43.3
C2009	41.7	42.8	42.0	40.2	41.1	42.5
HC93-1086	42.5	43.5	42.7	41.4	42.3	42.8
HC94-63PR	42.4	42.4	41.9	42.1	42.6	43.2
HC94-488	41.1	42.5	40.3	41.2	41.6	40.2
HC94-944	42.9	42.7	42.3	43.6	41.8	44.1
HC94-974	43.0	44.7	43.1	41.9	41.6	43.4
HC94-1363	42.2	42.0	42.6	41.0	42.4	42.9
HC95-1465	42.1	41.8	41.8	42.7	41.4	42.9
HC95-1948	43.0	44.3	42.1	43.0	42.6	43.2
HC96-39PR	42.7	43.8	42.7	40.3	43.9	42.6
HC96-55PR	42.4	42.7	41.7	43.3	43.1	41.0
HC96-74PR	42.4	43.1	42.2	42.3	42.3	42.3
HC96-1052	42.4	43.0	42.2	42.7	42.6	41.2
HC96-1586	42.9	42.6	42.6	42.7	43.8	42.9
HC96-1620	43.3	42.8	42.9	44.6	43.7	42.2
HC96-1622	42.9	44.9	42.8	41.1	44.1	41.6
HC97-18MB	44.2	44.7	44.6	41.9	45.3	44.2
HC97-27MB	45.2	44.6	46.6	42.7	46.7	45.3
HC97-83PR	40.3	40.0	40.6	42.5	40.2	38.2
HC97-120PR	43.2	43.6	43.1	42.8	44.2	42.4
LN97-11505	42.7	43.8	42.0	40.6	44.1	43.2
LN97-11702	43.6	44.5	44.1	40.7	45.0	43.8
LN97-13138	44.2	45.1	44.5	40.9	45.7	44.8
LN97-15076	43.9	44.0	44.2	42.3	44.5	44.7
LN97-18235	44.2	45.1	44.5	42.7	44.5	44.1
SN97-1910	42.7	39.0	44.6	41.7	45.2	43.1
SN97-1938	44.5	44.9	44.3	42.5	45.8	44.8
SN97-1974	44.9	45.0	45.2	42.6	45.5	46.0
U98-201559	43.5	44.5	43.6	41.8	43.8	43.6
U98-300460	43.0	43.2	42.0	42.3	43.6	43.9
U98-307157	42.4		41.8	42.7	43.3	42.0
U98-308307	45.8	46.2	46.0	42.7	47.3	46.6

U98-307157 Urbana, insufficient sample to test.

PRELIMINARY TEST IVB, 2000

OIL (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Lexington KY	Midway MO	Mt. Orab OH
HS93-4118 (IV)	19.5	19.7	19.4	19.0	20.5	18.8
Mustang (L) (SCN)	19.0	18.4	18.0	20.5	19.4	18.5
Macon (III)	19.6	19.5	19.5	19.5	20.0	19.5
Strong (dt1)	20.3	19.7	20.3	20.2	21.6	19.8
C2007	19.6	19.4	19.3	19.5	19.9	19.7
C2008	20.0	19.8	20.2	20.3	20.2	19.5
C2009	19.9	19.6	19.7	20.4	20.3	19.4
HC93-1086	19.3	19.4	19.1	19.3	20.0	18.5
HC94-63PR	19.9	20.7	19.7	19.3	20.3	19.3
HC94-488	20.8	20.7	19.7	20.4	21.8	21.2
HC94-944	19.9	19.8	19.5	20.0	20.8	19.4
HC94-974	19.9	19.8	19.7	20.6	20.3	19.0
HC94-1363	20.0	20.3	20.1	19.8	20.2	19.7
HC95-1465	19.9	20.5	20.0	19.0	20.6	19.3
HC95-1948	20.7	21.4	21.0	19.5	21.9	19.8
HC96-39PR	20.2	20.2	19.5	20.6	20.7	19.8
HC96-55PR	19.6	20.4	19.6	17.7	20.5	19.7
HC96-74PR	19.4	19.6	19.6	19.3	19.9	18.6
HC96-1052	19.9	20.2	19.8	19.8	20.1	19.6
HC96-1586	19.9	20.0	19.9	19.4	20.7	19.7
HC96-1620	19.6	19.6	19.4	19.7	20.4	19.2
HC96-1622	19.7	18.7	19.5	20.7	20.4	19.3
HC97-18MB	18.7	19.0	18.4	19.1	19.3	17.8
HC97-27MB	18.5	18.6	17.9	19.0	18.8	18.3
HC97-83PR	20.8	21.3	20.8	20.1	21.8	20.0
HC97-120PR	20.0	19.8	20.0	20.2	20.4	19.6
LN97-11505	20.3	19.7	20.8	20.3	21.2	19.6
LN97-11702	20.0	20.1	19.9	20.6	20.8	18.8
LN97-13138	19.3	19.2	18.7	19.9	19.8	19.0
LN97-15076	19.3	19.5	19.4	19.3	20.2	18.2
LN97-18235	19.6	19.2	19.5	20.0	20.3	18.9
SN97-1910	19.6	19.2	19.2	20.8	20.1	18.6
SN97-1938	19.1	19.3	19.1	19.2	20.2	18.0
SN97-1974	19.3	19.4	18.8	20.4	20.0	18.1
U98-201559	20.0	19.7	20.1	20.3	20.6	19.4
U98-300460	19.9	19.4	20.3	20.3	20.5	19.2
U98-307157	19.6		18.5	20.6	20.3	19.1
U98-308307	18.8	18.4	18.5	20.1	19.4	17.6

U98-307157 Urbana, insufficient sample to test.